

**MATERIAL SAFETY DATA SHEET**

Page 1 of 4

January 7, 2009

Group VT

**LUZENAC AMERICA, INC.**  
 8051 E. Maplewood Avenue, Building 4  
 Greenwood Village, Colorado 80111  
 1-800-325-0299 (General Information)

**MEDICAL EMERGENCY INFORMATION**  
 Contact: 1-303-623-5716 (24 hr.)  
 Rocky Mountain Poison Control Center

**SECTION 1 – SUBSTANCE INFORMATION****SUBSTANCE:** Talc**MOLECULAR FORMULA:** 3MgO•4SiO<sub>2</sub>•H<sub>2</sub>O**CHEMICAL FAMILY:** Silicate**PRODUCT and TRADENAMES:** The data contained herein applies to Luzenac America talc products bearing the following names:

<b>EZ FLOW VT</b>	<b>GRADE KT1</b>	<b>VERTAL 97</b>
<b>EZ FLOW MB</b>	<b>GRADE TC 100</b>	<b>VERTAL MB</b>
<b>GRADE 36</b>	<b>GRADE TC 97F</b>	<b>VERTAL RG</b>
<b>GRADE AB</b>	<b>VERTAL 7</b>	<b>VERTAL 202</b>
<b>Grade ABC</b>	<b>VERTAL 77</b>	<b>VERTAL 503</b>
<b>GRADE C85</b>	<b>VERTAL 92</b>	<b>VERTAL 503D</b>
<b>GRADE FG</b>	<b>VERTAL 93 AB</b>	<b>VERTAL UA-40</b>

**SECTION 2 – COMPONENTS**

**MAJOR:** Talc – a hydrous magnesium silicate; CAS #14807-96-6      **CONCENTRATION:** ~50-70%  
**MINOR:** Magnesite – a magnesium carbonate; CAS #546-93-0      ~30-45%  
 Chlorite – a magnesium aluminum silicate; CAS #1318-59-8      ~1-5%

**SECTION 3 – EXPOSURE LIMITS**

**TALC**                      OSHA - 20 mppcf PEL TWA  
                                  ACGIH - 2 mg/m<sup>3</sup> TLV TWA (respirable dust)

**MAGNESITE**            OSHA - 5 mg/m<sup>3</sup> PEL TWA (respirable dust)  
                                  ACGIH - 10 mg/m<sup>3</sup> TWA (inhalable particles)

**CHLORITE**              OSHA -- 5 mg/m<sup>3</sup> PEL TWA (respirable dust)<sup>1</sup>  
                                  ACGIH - 10 mg/m<sup>3</sup> TWA (inhalable particles)

<sup>1</sup> Particulates Not Otherwise Regulated (PNOR)    \* Particles Not Otherwise Specified (PNOS)

**SECTION 4 – FIRE, EXPLOSION & REACTIVITY****TALC****FIRE AND EXPLOSION HAZARD:** None**FIRE FIGHTING MEDIA:** None**FLASH POINT:** None**REACTIVITY:** Stable**INCOMPATIBILITIES:** Hot acids**DECOMPOSITION:** None hazardous**SECTION 5 – TOXICITY****TALC****NIOSH Registry Number:** WW2710000**SAX Toxicity Evaluation:** THR: Not available**Carcinogenic Status:**

IARC Cancer Review: Human Inadequate Evidence

IARC Cancer Review: Animal Inadequate Evidence

IARC: Not classifiable as a human carcinogen (Group 3)

OSHA: Not listed

ACGIH: A4 – Not Classifiable as a Human Carcinogen

NTP: Not listed. A 2-year inhalation study demonstrated clear evidence of carcinogenic activity in female rats at exposure levels of 18 mg/m<sup>3</sup>. Some evidence of carcinogenic activity was observed in male rats at the same level. No evidence of carcinogenic activity was found in mice (NTP TR-421).**Tumorigenic Data:**TCLo: inh-rat 11 mg/m<sup>3</sup>/1Y-I

TDLo: imp-rat 200 mg/kg

**Other Toxicity Data:**

Skin and Eye Irritation Data: skn-hmn 300 ug/3D-I MLD

**Teratogenicity (Reproductive Effects Data):** Not available**Mutation Data:** Not available**SECTION 6 – HEALTH EFFECTS AND FIRST AID****→ INHALATION**

**ACUTE EXPOSURE:** Exposure to a large concentration of air-borne dust of this material may cause mechanical irritation of the mucous membranes and respiratory tract.

**CHRONIC EXPOSURE:** Repeated or prolonged inhalation of air-borne dust of this material may cause scarring of the lungs (pulmonary fibrosis), with shortness of breath, chronic cough, and respiratory assisted heart failure. Prolonged exposure to talc can produce a symptomatic talc pneumoconiosis.

**FIRST AID:** Remove from exposure area to fresh air. If breathing has stopped, perform artificial respiration and get medical attention immediately. Keep person warm and at rest. Treat symptomatically and supportively.

**→ SKIN CONTACT**

**ACUTE EXPOSURE:** Direct contact may cause dryness, or may cause mild irritation if an allergic predisposition exists.

**CHRONIC EXPOSURE:** Prolonged contact may cause dryness of the skin, or may cause mild irritation if an allergic pre-disposition exists.

**FIRST AID:** Apply common skin moisturizers to relieve dryness. Irritations are uncommon; however, if irritation or redness develops, seek medical attention. Broken skin can be cleansed with mild soap and water.

**→ EYE CONTACT**

**ACUTE EXPOSURE:** Direct contact with dust may cause mechanical irritation of the eyes.

**CHRONIC EXPOSURE:** Repeated exposure may cause conjunctivae inflammation.

**FIRST AID:** Wash eyes with large amounts of water or normal saline solution. If irritation or redness develops, seek medical attention.

**→ INGESTION**

**ACUTE EXPOSURE:** This material is considered to be harmless and inert when ingested.

**CHRONIC EXPOSURE:** Repeated ingestion of large doses of talc for 13 and 10 successive days by rabbits and mice, revealed negative teratogenic and carcinogenic results.

**FIRST AID:** Treat symptomatically and supportively. If vomiting occurs, keep head lower than hips to prevent aspiration.

**SECTION 7 – PHYSICAL DATA****TALC**

**DESCRIPTION:** A natural mineral; grayish-white powder with a slight earthy odor. **pH:** Slightly basic

**DECOMPOSITION TEMPERATURE:** 1100°-1800°F (600°-1000°C)

**SPECIFIC GRAVITY (water=1.0):** 2.7-2.8

**SOLUBILITY in WATER:** Insoluble

**SECTION 8 – STORAGE, DISPOSAL & ENVIRONMENTAL**

**STORAGE:** Preserve in sealed containers to prevent dispersion of dust in air.

**WASTE DISPOSAL:** Dry material can be land-filled. Observe all federal, state and local regulations. Responsibility for proper waste disposal is with the owner of the waste.

**CONDITIONS TO AVOID:** Prevent dispersion of dust in air.

**ACCIDENTAL SPILLS:** For large spills, shovel or sweep up (while keeping dispersion of dust in air to a minimum) and place into suitable sealed containers for reclamation or later disposal. Residue should be cleaned up using a high-efficiency particulate filter vacuum. The use of water wash-down is not recommended. Wet material can cause a surface used for walking to become extremely slippery.

**SECTION 313 SUPPLIER NOTIFICATION:** This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

**RCRA:** Talc is not considered a hazardous waste by RCRA criteria (40 CFR 261). State and Local regulations / restrictions are complex and may differ from Federal regulations.

## SECTION 9 – PROTECTIVE EQUIPMENT

**VENTILATION:** Provide local exhaust or process enclosure ventilation to meet published exposure limits.

**RESPIRATOR:** The following maximum-use concentrations and respirators are recommendations by the U.S. Department of Health and Human Services; NIOSH Pocket Guide to Chemical Hazards; or by the U.S. Department of Labor, 29 CFR 1910 subpart Z.

<u>Talc - Maximum-Use Concentration</u>	<u>Respirator</u>
10 mg/m <sup>3</sup> .....	Any dust and mist respirator.
20 mg/m <sup>3</sup> .....	Any dust and mist respirator except single-use and quarter-mask respirators.

**GLOVES:** Protective gloves are not required, but may be worn to prevent skin dryness or irritation due to skin allergy.

**EYE PROTECTION:** Employees should wear dust-resistant safety goggles to prevent eye contact with high concentrations of air-borne dust of this substance. Where there is a possibility that an employee's eyes may be exposed to bulk quantities or high concentrations of air-borne dust of this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

## SECTION 10 – ADDITIONAL INFORMATION

**NPCA:** National Paint and Coatings Association – Hazardous Material Identification System (HMIS)

HEALTH HAZARD: 1\* - slight

FLAMMABILITY HAZARD: 0 – minimal

REACTIVITY HAZARD: 0 – minimal

PERSONAL PROTECTION: E – glasses, gloves, dust respirator

**CERCLA RATINGS:** (Scale 0-3) Health = 0, Fire = 0, Reactivity = 0, Persistence = 3

**NFPA RATINGS:** (Scale 0-4) Health = 0, Fire = 0, Reactivity = 0

**U.S. DEPARTMENT OF TRANSPORTATION - DOT:** No classification assigned

**CANADIAN TRANSPORTATION OF DANGEROUS GOODS:** No classification assigned

**LAND TRANSPORT - ADR/RID:** No classification assigned

**AIR TRANSPORT - IATA/ICAO:** No classification assigned

**MARITIME TRANSPORT - IMDG:** No classifications assigned

**HARMONIZED TARIFF CODE:** Talc - crushed or powdered. 2526.20.00. (Stat. Suffix 00)

**EPA TSCA STATUS:** Listed (CAS # 14807-96-6)

**EPA TSCA 12(B) EXPORT NOTIFICATION:** Not listed

**CEPA DOMESTIC SUBSTANCE LIST - DSL STATUS:** Listed

**CEPA NON-DOMESTIC SUBSTANCE LIST – NDSL STATUS:** Not listed

**CANADIAN WHMIS CLASSIFICATION:** D2b – Chronic Inhalation Hazard

**OTHER INVENTORIES:**

AICS (Australian)

EINECS (European No: 238-877-9)

ECL (Korean No: KE-32773)

SWISS (Giftliste No: G-6939)

PICCS (Philippines)

MITI (Japan) – Not listed – (exempt)

**CALIFORNIA PROP 65 STATUS:** Talc not listed

**STATE RIGHT-TO-KNOW:** Talc listed – Illinois; Massachusetts; New Jersey; Pennsylvania; Florida

**CLEAN AIR ACT - OZONE DEPLETING CHEMICALS (ODC's):** None

**CONEG APPROVED PACKAGING:** Yes

---

**DISCLAIMER**

Luzenac America, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LUZENAC AMERICA, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, LUZENAC AMERICA, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

---

**ISSUED BY:** Shripal Sharma  
Global Talc Regulatory Affairs Manager  
Luzenac America, Inc.  
Phone: 1-303-713-5227  
E-mail: [Shripal.sharma@riotinto.com](mailto:Shripal.sharma@riotinto.com)

**END OF MSDS GROUP VT**