SECTION 1 – SUBSTANCE INFORMATION

SUBSTANCE: Talc
MOLECULAR FORMULA: 3MgO·4SiO₂·H₂O
CHEMICAL FAMILY: Silicate

PRODUCT and TRADE NAMES: The data contained herein applies to Luzenac America talc products bearing the following names:

<table>
<thead>
<tr>
<th>PRODUCT NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>EZ FLOW VT</td>
</tr>
<tr>
<td>EZ FLOW MB</td>
</tr>
<tr>
<td>GRADE 36</td>
</tr>
<tr>
<td>GRADE AB</td>
</tr>
<tr>
<td>Grade ABC</td>
</tr>
<tr>
<td>GRADE C85</td>
</tr>
<tr>
<td>GRADE FG</td>
</tr>
<tr>
<td>GRADE KT1</td>
</tr>
<tr>
<td>GRADE TC 100</td>
</tr>
<tr>
<td>GRADE TC 97F</td>
</tr>
<tr>
<td>VERTAL 97</td>
</tr>
<tr>
<td>VERTAL MB</td>
</tr>
<tr>
<td>VERTAL RG</td>
</tr>
<tr>
<td>VERTAL 102</td>
</tr>
<tr>
<td>VERTAL 503</td>
</tr>
<tr>
<td>VERTAL UA-40</td>
</tr>
</tbody>
</table>

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/m³ TLV TWA (respirable dust)

MAGNESITE
OSHA - 5 mg/m³ PEL TWA (respirable dust)
ACGIH - 10 mg/m³ TWA (inhalable particles)

CHLORITE
OSHA -- 5 mg/m³ PEL TWA (respirable dust)
ACGIH - 10 mg/m³ TWA (inhalable particles)

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/m³. 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: ihl-rat 11 mg/m3/1Y-I
  TDLo: imp-rat 200 mg/kg

Version 1.0
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-born dust of this material may cause mechanical irritation of the mucous membranes and respiratory tract.

CHRONIC EXPOSURE: Repeated or prolonged inhalation of air-born 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.

<table>
<thead>
<tr>
<th>Talc - Maximum-Use Concentration</th>
<th>Respirator</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 mg/m³</td>
<td>Any dust and mist respirator.</td>
</tr>
<tr>
<td>20 mg/m³</td>
<td>Any dust and mist respirator except single-use and quarter-mask respirators.</td>
</tr>
</tbody>
</table>

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-born 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-born 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)

Version 1.0
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

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END OF MSDS GROUP VT