MATERIAL SAFETY DATA SHEET

LUZENAC AMERICA, INC.
8051 E. Maplewood Ave.
Greenwood Village, CO 80111
1-800-325-0299 (General Information)

SECTION 1 – SUBSTANCE INFORMATION

SUBSTANCE: Talc

MOLECULAR FORMULA: 3MgO·4SiO₂·H₂O

CHEMICAL FAMILY: Silicate

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

AC 1140
ALTEL C 200V USP
ALTEL C 300V USP
ALTEL C 400V USP
AQUATAL
AQUATAL 002
ARTIC MIST
BEAVERWHITE 325
CIMPACT 550
CIMPACT 550C
CIMPACT 610
CIMPACT 610 HS COMP
CIMPACT 610C
CIMPACT 699
CIMPACT 710
CIMPACT 710 C
CIMPACT 710 HS
CIMPACT 710 R
CIMPACT FR4
CIMPACT FR6
ENGINEERED TALC
EZ FLOW
EZ FLOW 2C
EZ FLOW MT
FCOR
FDC
GRADE 66
GRADE 910
HELIOCOTE LE
HELIOCOTE PT
HOM 325
HON F 325
HONC
IMPERIAL 1820L BC
IMPERIAL 1888L BC
IMPERIAL 200
IMPERIAL 200 USP
IMPERIAL 250
IMPERIAL 250 USP
IMPERIAL 400
IMPERIAL 400 USP
IMPERIAL 400Y USP

SELECT-A-SORB COMP
SELECT-A-SORB COMP PF
SELECT-A-SORB R
SELECT-A-SORB ST
SILVERLINE 002
SILVERLINE 202
SILVERLINE 202-GE
SILVERLINE 303
SILVERLINE 403
SILVERLINE 665
STEAWHITE 2
STEAWHITE 60
STEAWHITE 600
STEARLINE 320V
SUPRA H
SUPRA H USP
SUPRAFINO H
SUPRAFINO H USP
SUPREME H
SUPREME H USP
TALCOLIVA
VERTAL 1000
VERTAL 1500
VERTAL 403
VERTAL C2 PLUS
VERTAL CO PLUS
VERTAL CO PLUS DENSE
VERTAL SP
YELLOWSTONE
YELLOWSTONE C
YELLOWSTONE ORE

SECTION 2 – COMPONENTS

MAJOR: Talc – a hydrous magnesium silicate; CAS #14807-96-6

MINOR: Dolomite – a magnesium calcium carbonate; CAS #16389-88-1
Chlorite – a magnesium aluminum silicate; CAS #1318-59-8
Magnesite – a magnesium carbonate; CAS #546-93-0

CONCENTRATION: ~98-100%
<2%
<2%
<2%

SECTION 3 – EXPOSURE LIMITS

TALC
OSHA - 20 mppcf PELTWA
ACGIH - 2 mg/m³ TLV TWA (respirable dust)

SECTION 4 – FIRE, EXPLOSION & REACTIVITY

FIRE AND EXPLOSION HAZARD: None
FIRE FIGHTING MEDIA: None
FLASH POINT: None

REACTIVITY: Stable
INCOMPATIBILITIES: None
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: inh-rat 11 mg/m³/1Y-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-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 conjunctival 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: 1652°-1832°F (900°-1000°C)  

SPECIFIC GRAVITY (water = 1.0): 2.8

SOLUBILITY:
- Water: <1 mg/mL @ 21 C (RAD)
- Ethanol: <1 mg/mL @ 21 C (RAD)
- Acetone: <1 mg/mL @ 21 C (RAD)
- Cold acids: Insoluble
- Alkalies: Insoluble

SECTION 8 – STORAGE, DISPOSAL & ENVIRONMENTAL

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

WASTE DISPOSAL: Dry material can be landfilled. 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>
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<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>
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</tbody>
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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*
- FLAMMABILITY HAZARD: 0
- PHYSICAL HAZARD: 0
- 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

OTHER INVENTORIES:
  - AICS (Australian)
  - EINECS (European No: 238-877-9)
  - ECL (Korean No: KE-32773)
  - SWISS (Giftliste No: G-6939)
  - PICCS (Philippines)
  - MITI (Japan) – Exempt - not required for natural minerals
  - IECS (China) - Listed

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 1