

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

- 1.1 Product Trade Names:** Granifort® 10 – 20 UW, Granifort® 16 – 40 UW, Granifort® 30 - 50 UW, Granifort® 40 – 140 UW, Granifort® 80 – 200 UW, Granifort® 5 – 10 UW, Granifort® 3 – 7 UW, Cultured Marble Premium, Calcipool UW, Granifort® 4, Granifort® 3, Granifort® 8 – 14, Granifort® 10 – 20, Granifort® 16 – 50, Granifort® 40 – 200, Calcipool, TLC, Marmolina, Microcarb® 200 DA, Microcarb® 325 DA, Microcarb® 6 DA, Microcarb® 5 DA, Microcarb® 3 DA, Microcarb® 2 DA
- 1.1 Chemical Name:** Calcium Carbonate / Limestone
- 1.2 Relevant Uses:** Mineral charge for paper, paint, plastic and ceramic industries
- 1.3 Company:** REGIO MÁRMOL SA DE CV
Domicilio Conocido S/N, Dinamita
CP: 35100
Durango, México.
+52 (871) 751 6020
- 1.4 Emergency Telephone Number:** +1 (800) 424-9300 CHEMTREC or International +1 703 527 3887
- 1.5 Website:** www.regiomarmol.com
- 1.6 Email:** calidad@regiomarmol.com

SECTION II – HAZARDS IDENTIFICATION

Limestone is a calcium carbonate product which naturally contains crystalline silica (quartz). Classification is based respirable silica.

2.1 Classification of the substance:

Carcinogenicity Category 1B

Specific Target Organ Toxicity – Repeated Category 2 (lungs)

2.2 Hazard Pictogram:



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2.3 Signal Word: Danger**2.4 Hazard Statements**

H350: May cause cancer.

H372: May cause damage to lungs through prolonged and repeated inhalation exposure.

2.5 Precautionary Statements

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P280: Wear eye protection/face protection.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P308: If exposed: Get medical advice/attention.

P405: Store locked up.

P501: Dispose of contents/container to in accordance with local/regional/national/international regulations.

2.3 Other hazards: This product is exempted of REACH registration REACH-REG. 1907/2006 and free of substances listed in REACH LIST SVHC. This product is inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION III – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Chemical Composition:

Chemical	CAS #	Percent in Products	Classification
Calcium carbonate	1317-65-3	97-99%	None
Respirable Silica (quartz)	14808-60-7	<0.25%	H350: May cause cancer. H372: May cause damage to lungs through prolonged and repeated inhalation exposure.
Balance of ingredients (impurities) are non-hazardous under UN GHS and OSHA HCS classifications.			

3.2 Other information: No asbestos was detected in final products.

SECTION IV – FIRST AID MEASURES

4.1 Eye contact: Rinse with copious quantities of water and seek medical attention if irritation persists.

4.2 Skin contact: No special first aid measures necessary.

4.3 Ingestion: No first aid measures required.

4.4 Inhalation: No special first aid measures. Use of dust mask is recommended when ventilation is insufficient. Remove to fresh air and get medical attention in case of serious respiratory problems.

SECTION V – FIREFIGHTING MEASURES

5.1 Extinguishing media: All extinguishing media can be used.

5.2 Special hazards arising from the substance or mixture: The product is not flammable, combustible or explosive. No hazardous thermal decomposition.

5.3 Advice for firefighters: Use extinguishing equipment according to national normative.

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.2 Environmental precautions: No special requirements. Avoid wind dispersal.

6.3 Containment and clean up: Vacuum clean while wearing personal protective equipment in compliance with national legislation.

SECTION VII – HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. If you require advice on safe handling techniques, please contact your supplier.

7.2 Conditions for safe storage, including any incompatibilities: Keep the product dry and in closed containers.

7.3 Specific end use(s): If you require advice on specific uses, please contact your supplier.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Regulatory Values

Limestone

ACGIH TLV: Total, 10 mg/m³ TWA

OSHA PEL: Total, 15 mg/m³ TWA

Silica

ACGIH TLV: respirable dust, 0.1 mg/m³

OSHA PEL: respirable dust, 0.1 mg/m³

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8.2 Appropriate engineering controls: Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures, such as isolating personnel from dusty areas. Remove and wash soiled clothing.

8.3 Individual (personal) protection measures

- Eye protection: Wear safety glasses with side-shields where there is a risk of dust generation which could lead to mechanical irritation of the eye.
- Skin protection: No specific requirement. For hands, see below.
- Hand protection: Protective gloves are not necessary but recommended for those prone to skin irritation or dryness.
- Respiratory protection: In case of prolonged overexposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of national legislation.

8.4 Other information: PEL: Permissible Exposure Limit, TLV: Threshold Limit Value, TWA: Time Weighted Average

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic and chemical properties

- APPEARANCE: White powder or white grains
- ODOR: No odor
- ODOR THRESHOLD: Not applicable
- pH AT AS SUPPLIED: 9.0 – 9.95 (10% water suspension)
- MELTING POINT/ FREEZING POINT: Not applicable
- BOILING POINT AND BOILING RANGE: Not applicable
- FLASH POINT: Not applicable
- EVAPORATION RATE: Not applicable
- FLAMMABILITY: Not applicable
- UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Not applicable
- VAPOR PRESSURE: Not applicable
- VAPOR DENSITY: Not applicable
- RELATIVE DENSITY: 2.71 g/cm³
- SOLUBILITY IN WATER: 0.0015mg/l @ 18°C
- SPECIFIC GRAVITY: 2.71
- PARTITION COEFFICIENT; n-octanol/water: Not applicable
- AUTO-IGNITION TEMPERATURE: Not applicable
- DECOMPOSITION TEMPERATURE: > 825 °C
- VISCOSITY: Unknown
- EXPLOSIVE PROPERTIES: Not applicable

- OXIDISING PROPERTIES: Not applicable
- MOLECULAR WEIGHT: 100.08 g/mol

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity: Inert, not reactive

10.2 Chemical stability: Chemically stable

10.3 Possibility of hazardous reactions: No hazardous reaction

10.4 Conditions to avoid: None

10.5 Incompatible materials: Strong Acids

10.6 Hazardous decomposition products: None

SECTION XI – TOXICOLOGICAL INFORMATION

Routes of Exposure: Inhalation is the most significant route of exposure in occupational and other settings. Dermal exposure is not usually a concern as limestone is poorly absorbed through intact skin.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics: Limestone dust is a physical irritant of the eyes, nose, mucus membranes, and skin of humans. Contact of limestone dust with the eyes may cause redness, pain, and inflammation of the eyelids. Skin contact may result in dryness and moderate local irritation. Other symptoms include runny nose, sneezing, and coughing.

Delayed and Immediate Effects As Well as Chronic Effects from Short and Long-Term Exposure: Quartz (crystalline silica) contamination of limestone in excess of 2% may pose a risk for silicosis, a lung disease. The product contains a maximum of 0.25% respirable silica. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has been associated with silicosis. Symptoms of silicosis may include, but are not limited to, the following: shortness of breath; difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Smoking may increase the risk of developing lung disorders, including emphysema and lung cancer. Not all individuals with silicosis will exhibit symptoms (signs) of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure has ceased. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Several studies of persons with silicosis also indicate an increased risk of developing lung cancer, a risk that increases with the duration of exposure. Some of these studies of silicotics do not account for lung cancer confounders, especially smoking.

Acute Toxicity (Limestone):

Method: Acute Oral Toxicity Study

Species: Rat

Dose: NA

Results: Low acute oral toxicity. The oral LD₅₀ in rats is 6,450 mg/kg bw

Method: Acute Dermal Toxicity Study

No information found.

Method: Acute Inhalation Toxicity Study

No information found.

Skin Corrosion / Irritation (based on precipitated calcium carbonate):

Method: Dermal Irritation Study (OECD Guideline 404)

Species: Rabbit

Dose: 0.5 g of test material moistened with 0.5 mL of distilled water

Results: No evidence of skin irritation or corrosive effects was noted during the study (all scores were 0).

Serious Eye Damage / Irritation (based on precipitated calcium carbonate):

Method: Ocular Irritation Study (OECD Guideline 405)

Species: Rabbit

Dose: 0.1 mL

Results: Minimal conjunctival irritation which returned to normal by 72 hours.

Respiratory or Skin Sensitization:

No information found.

Germ Cell Mutagenicity:

No information found.

Carcinogenicity:

Limestone is not listed as a known or suspected carcinogen by OSHA, NTP, or IARC. Respirable crystalline silica, a component of limestone, is classified as carcinogenic (Group 1) by IARC. NTP lists respirable crystalline silica as a “known human carcinogen.” ACGIH lists respirable crystalline silica as a suspected human carcinogen (A-2). These classifications are based on sufficient evidence of carcinogenicity in certain experimental animals and on selected epidemiological studies of workers exposed to crystalline silica.

Reproductive Toxicity:

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Method: Oral Study
Species: Rat
Dose: 1.25% in feed (approximately 625 mg/kg bw per day)
Results: No adverse effects reported.

STOT-Single Exposure:

Method: Inhalation Study
Species: NA
Dose: NA
Results: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and/or asphyxiation.

STOT-Repeated Exposure:

Method: Inhalation Study
Species: NA
Dose: NA
Results: May cause damage to lungs through prolonged and repeated inhalation exposure.

SECTION XII – ECOLOGICAL INFORMATION

12.1 Toxicity: Limestone: The LC₅₀ in *Gambusia affinis* (Western mosquitofish) is > 56,000 mg/L for 24 – 96 hrs under static conditions.

12.2 Persistence and degradability: No data are available on this product. Product is an inorganic substance and therefore is not considered biodegradable.

12.3 Bioaccumulative potential: Not relevant

12.4 Mobility in soil: Negligible

12.5 Results of PBT and vPvB assessment: Not relevant

12.6 Other adverse effects: No specific adverse effects known

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste from residue/unused products: Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations.

13.2 Waste from Packaging: Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. The reuse of

packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorized waste management company and in compliance with local regulations.

SECTION XIV – TRANSPORT INFORMATION

14.1 General: Hermetically seal the tanks in order to avoid dust emissions. In case of bag in pallets, don't stack more than three pallets.

14.2 Land transport (ADR & RID): Not classified

14.3 Interior sea transport (ADN): Not classified

14.4 Sea transport (IMDG): Not classified

14.5 Air transport (IATA/ICAO): Not classified

14.6 DOT: Not classified

SECTION XV – REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture.

Regulation (EC) 1907/2006: REACH

*Exempt as a naturally occurring substance.

Canada - WHMIS - Classifications of Substances D2A

Crystalline Silica, quartz (impurity) - CAS: 14808-60-7

*Exempt. An impurity

Canada - WHMIS - Classifications of Substances D2A

Canada - WHMIS - Ingredient Disclosure List 1 %

California - Proposition 65 - Carcinogens List (409) carcinogen

EPA:

SARA 311 / 312 HAZARD: None

SARA 313: None

CERCLA RQ: None

Clean Water Act: The components of this product are not regulated under any of the following sections of the Clean Water Act: Section: Section 307 Priority Pollutants or Section 311 Hazardous Substances. It would be regulated under 304 Water Quality Criteria Substances for suspended solids.

Clean Air Act: The components of this product are not regulated under any of the following sections of the Clean Air Act: Section 112 Hazardous Air Pollutants, Section 112 Statutory Air Pollutants, Section 112 High-

Risk Pollutants, Section 112(r) Accidental Release Prevention Substances or Section 602 Ozone Depleting Substance. As a powder product, it would be regulated under Section 109 Criteria Pollutants particulates.

SECTION XVI – OTHER INFORMATION

This material safety data sheet complements the technical data sheets but does not replace them. The information it contains is based on our present knowledge of the product on the date indicated. Users should be warned about the risks associated with using the product for a different purpose than that for which it was developed, and particularly for uses for which we are not qualified to give advice.

This SDS was finalized on August 18, 2015 and is compliant with OSHA HCS/HazCom 2012 Final Rule. This replaces the previous version dated June 1, 2015.