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SECTION 1 – PRODUCT INFORMATION

Product: Limestone - Slurry

Trade Names: Microna S-58-H.B., Microna S-90-H.B., Microna S-93-H.B.,
Microna S-98-H.B., Micronafil, Micronacat, Micronacat 30,
Micronacat 50, Micronapaque, Micronapaque H.B.,
Micronapaque H.S., Micronasize CPS, Micronasize FPS-H.B.,
Micronasize RPS, Micronasize CAT, Microna S8X.

Chemical Formula: Calcium Carbonate (CaCO₃) and water mix.

CAS #: 1317 - 65 – 3

Manufacturer: COLUMBIA RIVER CARBONATES

Address: P.O. Box 2350, 300 N. Pekin Road, Woodland, WA 98674

Telephone: (360) 225-6505

Emergency Phone: (800) 424-9300 (CHEMTREC)

SECTION 2 – HAZARDOUS INGREDIENTS

Ingredients:	Wt. % (typical):	CAS#:	Exposure Limits (TWA) mg/m ³ :	
Limestone	>99.0	1317 – 65 – 3	ACGIH TLV	Inhalable dust, 10 [for PNOS] Respirable dust, 3 [for PNOS]
			OSHA PEL:	Total dust, 15 Respirable dust, 5

These limestone products also contain trace amounts of materials regulated under California's Safe Drinking Water and Toxic Enforcement Act. These materials and their typical levels are: Arsenic 0.4 ppm; Lead 3 ppm; Cadmium 2 ppm.

SECTION 3 – PHYSICAL DATA

Appearance and Odor: White opaque liquid – no odor.
Solubility in Water: 0.0014 g/100 ml @ 25 degrees Celcius.
Specific Gravity (of solids) 2.71 g/ml.

SECTION 4 - FIRE & EXPLOSION DATA

Flash Point: Non-Flammable.
Extinguishing Media: Not Applicable.
Special Fire Fighting Procedures: None.
Unusual Fire & Explosion Hazards: None.

SECTION 5 – REACTIVITY DATA

Stability: Stable.
Reactivity in Water: None.
Incompatibility (Material to Avoid): Reacts with acids and liberates carbon dioxide. Ignites on contact with fluorine. Also incompatible with alum and ammonium salts.
Hazardous Polymerization: Will not occur.
Hazardous Decomposition Products: Thermal decomposition can produce calcium oxide and carbon dioxide.

SECTION 6 – TOXICOLOGICAL PROPERTIES



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EFFECTS AND HAZARDS OF ACUTE EXPOSURE:

- Inhalation:** If dried, dust may irritate the respiratory tract. Symptoms include sneezing and slight nose irritation..
- Eye Contact:** Irritation. Symptoms include watering and irritation.
- Skin Contact:** Repeated or prolonged exposure may have a drying effect on the skin, and may also cause irritation.
- Ingestion:** Ingestion of very large quantities may result in intestinal obstruction an/or constipation.

EFFECTS AND HAZARDS OF CHRONIC EXPOSURE:

There are no known chronic health effects associated with high-purity limestone. Chronic exposure to any nuisance dust at concentrations exceeding occupational exposure limits may increase the risk of developing pneumoconiosis (lung disease).

SECTION 7 – FIRST AID MEASURES

- Eye Contact:** Flush thoroughly with water. If irritation persists, seek medical attention.
- Skin Contact:** Wash with mild soap and warm water.
- Inhalation:** Remove to fresh air. Obtain medical advice if required.
- Ingestion:** Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Drink 8 to 10 ounces (240 to 300 ml)of water to dilute material in stomach. Obtain medical advice immediately.

SECTION 8 – PREVENTATIVE MEASURES


- Spills/Leaks:** Measures should be taken to minimize and protect against airborne dust during cleanup operations, including use of respiratory protective equipment if necessary.
- Disposal:** From a waste perspective, this product is not considered hazardous and may be disposed of as solid waste in accordance with applicable federal, state, provincial, and local regulations.
- Handling:** Administrative and/or engineering control methods such as, but not limited to, process enclosure and exhaust ventilation may be necessary to control dust exposures, if applicable. Supply sufficient replacement air to make up for air removed by exhaust systems. If engineering controls and work practices are not effective in controlling exposures, appropriate personal protective equipment including a NIOSH/OSHA approved dust respirator should be worn. Appropriate eye protection should be worn. Selection of all personal protective equipment should be performed by an Industrial Hygienist or other qualified professional. When prolonged or repeated contact with hands is likely, the use of appropriate gloves is recommended.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (National Paint & Coatings Association):

CATEGORY	RATING
Health	1*
Flammability	0
Physical Hazard	0

SECTION 9 –REGULATORY INFORMATION

- TSCA:** This product primarily is natural calcium carbonate from limestone ore which is listed on the U.S. EPA TSCA inventory under Limestone, CAS# 1317-65-3. In addition, all other ingredients and/or processing aids are also on the TSCA inventory.

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- DSL:** BY virtue of its status as a “substance occurring in nature”, ground limestone is considered to be on the Canadian Domestic Substances List. In addition, all other ingredients and/or processing aids are also on the DSL.
- CONEG:** Being derived from limestone ore, this product may contain incidental trace levels of naturally occurring metals. However, no metals are intentionally added and this product complies with the CONEG requirement of <100 ppm of Cd, Cr⁺⁶, Pb, and Hg.
- ODCs:** This product does not contain, nor is it produced with, any U.S. EPA-defined Class I or Class II ozone-depleting chemicals.
- FDA:** This product may be used as an indirect food additive in food packaging applications under 21 CFR (FDA) 174.5, 175.300, and 178.3297. It does not qualify as a substance permitted for direct addition to human food or animal feed.

SECTION 10 – PREPARATION INFORMATION

Prepared by Technical Support Group

The information contained herein has been compiled by Columbia River Carbonates from sources it considers reliable, and is accurate to the best of Columbia River Carbonates’ knowledge. Before using the product identified hereon, the foregoing MSDS and the product label should be read carefully. The information contained herein relates only to the product identified hereon, and does not relate to its use in combination with any other material or in any process. Customers are encouraged to conduct their own tests concerning the use of the product identified hereon as each customer’s manner and conditions of use and handling may involve additional considerations. Columbia River Carbonates assumes and shall incur no liability for any damages, losses, injuries, costs, or consequential damages that may result from the uses or misuse of the product identified hereon, and the recipient assumes all of such liability.