

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name/Trade Name(s): MICRONA™ Top Flow Lime

### **Manufacturer or Supplier's Details:**

Company name of supplier: Columbia River Carbonates

Address: 300 N. Pekin Road,  
Woodland, WA 98674

Telephone: (360) 225-6505

Emergency Phone: (360) 225-6505

### **Recommended use of the chemical and restrictions on use:**

Recommended Use: Agricultural Soil Amendment

Restrictions on use: For agricultural use only.

## SECTION 2 – HAZARDS IDENTIFICATION

### **GHS Classification**

Not a hazardous substance or mixture

### **GHS Label elements**

Not a hazardous substance or mixture

### **Potential Health Effects**

#### **Carcinogenicity:**

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**NTP** The NTP's Report on Carcinogens lists crystalline silica (respirable size) as a known human carcinogen.

## SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

### **Hazardous ingredients**

| Chemical Name | CAS-No.   | Typical composition (%) |
|---------------|-----------|-------------------------|
| Limestone     | 1317-65-3 | 63 - 67%                |

## SECTION 4 – FIRST AID MEASURES

**If inhaled:** Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.  
If symptoms persist, call a physician.

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

**In case of skin contact:** Take off contaminated clothing and shoes immediately.  
Wash with mild soap and warm water.

**In case of eye contact:** Flush thoroughly with water as a precaution.  
Remove contact lenses.  
Keep eye wide open while rinsing.  
If irritation persists, seek medical attention.

**If swallowed:** Rinse mouth thoroughly with water and drink afterwards plenty of water to dilute material in stomach.  
Do not induce vomiting.  
Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** None known

## SECTION 5 – FIRE FIGHTING MEASURES

**Flash Point:** Non-Flammable

**Suitable and unsuitable extinguishing media:** This material is not combustible. Appropriate extinguishing media for surrounding fire should be used.

**Hazardous combustion products:** No hazardous combustion products are known.

**Special protective equipment and precautions for fire fighters:** In the event of fire, wear self-contained breathing apparatus.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Measures should be taken to minimize and protect against airborne dust during cleanup operations, including use of respiratory protective equipment if necessary.

**Environmental precautions:** No special environmental precautions required.

**Methods and materials for containment and cleaning up:** Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

## SECTION 7 – HANDLING AND STORAGE

**Advice on protection against fire and explosion:** Product is not flammable or explosive.

**Advice on Safe Handling:** For personal protection see section 8.  
No special handling advice required.

**Conditions for safe storage:** Keep container tightly closed in a dry and well-ventilated place.

**Materials to avoid:** Do not store near acids.

**Further information on storage Stability:** No decomposition if stored and applied as directed.

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

| Ingredients              | CAS #     | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis     |
|--------------------------|-----------|-------------------------------|------------------------------------------------|-----------|
| Ground Calcium Carbonate | 1317-65-3 | TWA (Total Dust)              | 15 mg/m3                                       | OSHA Z-1  |
|                          |           | TWA (respirable fraction)     | 5 mg/m3                                        | OSHA Z-1  |
|                          |           | TWA (Total Dust)              | 10 mg/m3                                       | NIOSH REL |
|                          |           | TWA (respirable fraction)     | 5 mg/m3                                        | NIOSH REL |

**Appropriate Engineering Controls:** Use with adequate ventilation to reduce dust exposure

**Respiratory Protection:** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Hand protection remarks:** For prolonged or repeated contact, use protective gloves.

**Eye protection:** Safety Glasses

**Skin and body protection:** Protective suit

**Hygiene measures:** General industrial hygiene practice

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Aqueous Slurry  
**Color:** White  
**Odor:** Characteristic  
**Odor Threshold:** Not relevant  
**pH:** 9.5-10.5  
**Melting Point:** Not Applicable  
**Freezing Point:** 0 °C  
**Boiling Point:** 100° C  
**Flash Point:** Does not flash  
**Flammability (solid, gas):** Non-flammable  
**Evaporation Rate:** No data available  
**Vapor Pressure:** 23 hPa (20°C, aqueous phase)  
**Vapor Density:** No data available  
**Specific Gravity:**  
**(Relative Density):** 1.6-1.7 g/ml (Density depends on the solids content of the dispersion)  
**Viscosity:** 200-2000 cps (Brookfield, spindle 3 or 4, 100rpm)  
**Solubility in Water:** 0.014 g/L @ 20°C  
**Partition coefficient: n-octanol/water:** Not applicable  
**Auto-ignition Temperature:** Not applicable  
**Thermal Decomposition:** >400°C  
**Upper explosion limit:** Not explosive  
**Lower explosion limit:** Not explosive

## SECTION 10 – STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage conditions.

**Chemical Stability:** Material is stable under normal conditions.

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

**Possibility of hazardous reactions:** Stable under recommended storage conditions.  
No decomposition if used as directed.  
Reacts with acids and liberates carbon dioxide. This displaces oxygen in the air in closed spaces (danger of suffocation).

**Conditions to Avoid:** No data available

**Hazardous Decomposition Products:** Thermal decomposition can produce calcium oxide and carbon dioxide.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure:

**Inhalation:** Dust in high concentrations may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing pneumoconiosis.

**Eye Contact:** May cause irritation due to mechanical abrasion.

**Skin Contact:** Prolonged contact may cause dryness of the skin.

**Ingestion:** May cause irritation. Not an expected route of exposure.

### Symptoms related to the physical, chemical and toxicological characteristics:

**Symptoms:** Unknown

**Acute toxicity:** Not expected to be a hazard under normal conditions of intended use.

**Ingredients:**

**Limestone:**

Acute oral toxicity: LD50 Oral (Rat) >5,000 mg/kg

### Delayed and immediate effects as well as chronic effects from short- and long-term exposure:

**Skin corrosion/irritation:** Prolonged contact may cause dryness of the skin.

**Serious eye damage/eye irritation:** Slightly irritating due to mechanical abrasion

**Respiratory or skin sensitization:** Dust in high concentrations may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing pneumoconiosis.

**Germ cell mutagenicity** No data available

**Carcinogenicity** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**Reproductive toxicity:** No data available

**STOT-repeated exposure:** Not classified

**Aspiration hazard:** Not an aspiration hazard.

**Chronic effects:** Pre-existing skin and respiratory conditions including dermatitis, asthma and chronic lung disease might be aggravated by exposure. Occupational exposure to respirable dust should be monitored and controlled.

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

## SECTION 12 – ECOLOGICAL INFORMATION

**Ecotoxicity** The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Product:

Toxicity to fish: No Data Available

Toxicity to daphnia and other:  
aquatic invertebrates No Data Available

Toxicity to algae: No Data Available

### Ingredients:

#### **Limestone:**

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 10,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other:  
aquatic invertebrates ED50 (Daphnia magna (Water flea)): >1,000 mg/l  
Exposure time: 48 h

Toxicity to algae: ED50 (Desmodesmus subspicatus (green algae)): >200 mg/l  
Exposure time: 72 h

**Bioaccumulative potential:** Bioaccumulation is not expected

**Other adverse effects:** None expected

## SECTION 13 – DISPOSAL CONSIDERATIONS

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.

## SECTION 14 – TRANSPORT INFORMATION

### **International Regulation**

#### **Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

#### **Domestic regulation**

Not a DOT hazardous material. Local regulations may apply.

## SECTION 15 – REGULATORY INFORMATION

**OSHA Hazards:** No OSHA hazards

### **EPCRA – Emergency Planning and Community Right-to-Know**

#### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### **SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ

#### **SARA 311/312 Hazards:**

No SARA Hazards

# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

## SARA 302:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

## SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III< Section 313.

## Clean Air Act:

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, APP. A+B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This Product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F)

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489)

## Clean Water Act:

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3

This Product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

## 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.

## DSL:

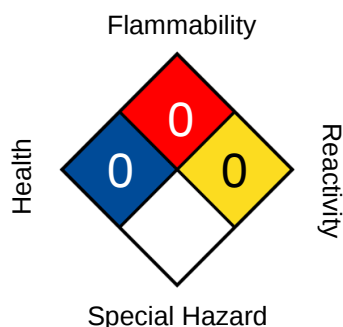
By virtue of its status as a "substance occurring in nature", ground limestone is considered to be on the Canadian Domestic Substances List. In addition, all other ingredients and/or processing aids are also on the DSL.

## 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<sup>+6</sup>, Pb, and Hg.

## SECTION 16 – OTHER INFORMATION

### NFPA:



# SAFETY DATA SHEET



Product: MICRONA™  
Top Flow Lime

Version: 2.0

Revision Date: 3/29/2024

---

## Prepared by Technical Support Group

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.