

SAFETY DATA SHEET



Product: MICRONA™
Ag H₂O - Gypsum

Version: 2.0

Revision Date: 4/1/2024

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name/Trade Name(s): MICRONA™ Ag H₂O - Gypsum

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: For Agricultural Use

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification

Carcinogenicity: Category 1A

GHS Label elements

Hazard pictograms:



Signal Word: Danger

Hazard Statements: H350i May cause cancer by inhalation.

Precautionary Statements:

Prevention:

P201 Obtain special instructions before use.

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

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

P281 Use personal protective equipment as required.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/attention

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant

Potential Health Effects

Carcinogenicity:

IARC

Group 1: Carcinogenic to humans

Quartz (SiO₂) CAS# 14808-60-7

NTP

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

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SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Typical composition (%)
Calcium Sulfate Dihydrate (alternative CAS 10101-41-4)	13397-24-5	95-100%

Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.75%. Exposures to respirable crystalline silica during the normal use of this product should be determined by workplace hygiene testing.

SECTION 4 – FIRST AID MEASURES

If inhaled:	Dust may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits. Move to fresh air in case of accidental inhalation of dust. If symptoms persist, call a physician.
In case of skin contact:	Direct contact may cause irritation by mechanical abrasion. Wash off with soap and plenty of water.
In case of eye contact:	Direct contact with dust may cause irritation by mechanical abrasion. Do not rub eye. Flush eye thoroughly with water. Keep eye wide open while rinsing. Remove contact lenses. If irritation occurs, get medical assistance.
If swallowed:	Intestinal obstruction may occur if the material hardens, especially in the pyloric region. 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:	Above 1450°C, material can decompose and release sulfur dioxide (SO ₂) and oxides of carbon.
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.
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Environmental precautions: No special environmental precautions required.

Methods and materials for containment and cleaning up: Sweep up and shovel.
Keep in suitable, closed containers for disposal.

SECTION 7 – HANDLING AND STORAGE

Advice on protection against fire and explosion: Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed.

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: No special restrictions on storage with other products.

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

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS #	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Gypsum	13397-24-5	TWA (Total Dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
Silica, crystalline (quartz)	14808-60-7	TWA (respirable fraction)	0.05 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	0.05 mg/m ³	NIOSH REL
		TWA (respirable fraction)	0.025 mg/m ³	ACGIH
		TWA (respirable fraction)	0.1 mg/m ³	OSHA P0
		TWA (respirable fraction)	10 mg/m ³ / %SiO ₂ + 2	OSHA Z-3
		TWA (respirable fraction)	250 mppcf / %SiO ₂ + 5	OSHA Z-3
		TWA (respirable fraction)	250 mppcf / %SiO ₂ + 5	OSHA Z-3

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: Powder
Color: Gray/Brown
Odor: Slight mineral odor
Odor Threshold: Not relevant
pH: 6-8

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Melting Point:	Not Applicable
Freezing Point:	Not applicable. Product is a solid
Boiling Point:	Decomposition: Decomposes below the boiling point
Flash Point:	Does not flash
Flammability (solid, gas):	Non-flammable
Evaporation Rate:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Specific Gravity:	
(Relative Density):	2.3 g/ml
Viscosity:	Not applicable
Solubility in Water:	2.1 g/L @ 20°C
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition Temperature:	Not applicable
Thermal Decomposition:	1450°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.
Possibility of hazardous reactions:	Stable under recommended storage conditions. No decomposition if used as directed. Reacts with acids, Aluminum (at high temperatures), diazomethane.
Conditions to Avoid:	No data available
Hazardous Decomposition Products:	Thermal decomposition can produce calcium oxide, sulfur dioxide, Carbon dioxide and carbon monoxide.

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. Long term exposure to respirable size crystalline silica dust can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.
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.

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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. Long term exposure to respirable size crystalline silica dust can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.
Germ cell mutagenicity	No data available
Carcinogenicity	
Ingredients:	
Silica, crystalline (quartz):	
Carcinogenicity-Assessment:	Positive evidence from human epidemiological studies (inhalation)
IARC	Group 1: Carcinogenic to humans Silica, crystalline (quartz) 14808-60-7
NTP	Known to be human carcinogen Silica, crystalline (quartz) 14808-60-7
Reproductive toxicity:	No data available
STOT-repeated exposure	
Ingredients:	
Silica, crystalline (quartz):	
Routes of exposure:	Inhalation
Target Organs:	Lungs
Assessment:	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard:	Due to the physical form of the product it is 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.

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.
Toxicity to fish:	LC50 (Pimephales promelas (Fathead minnow)): >1970 mg/l Exposure time: 96 h
Persistence and degradability:	Calcium sulfate dissolves in water forming calcium and sulfate ions
Bioaccumulative potential:	Bioaccumulation is not expected
Other adverse effects:	None expected

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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: Carcinogen

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

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

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California Proposition 65:



WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information, visit www.P65Warnings.ca.gov.

TSCA:

This product primarily is natural calcium sulfate dihydrate (gypsum) which is listed on the U.S. EPA TSCA inventory. In addition, all other ingredients and/or processing aids are also on the TSCA inventory.

DSL:

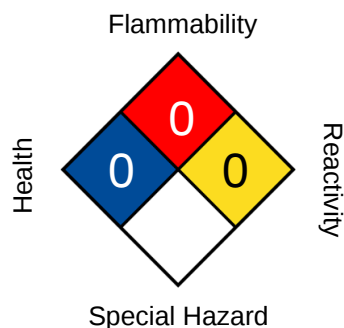
By virtue of its status as a "substance occurring in nature", ground gypsum is considered to be on the Canadian Domestic Substances List. In addition, all other ingredients and/or processing aids are also on the DSL.

CONEG:

Being derived from gypsum 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.

SECTION 16 – OTHER INFORMATION

NFPA:



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.