



Safety Data Sheet

Spanish River Carbonatite Rock Dust

Section 1. Identification

Product Identifier	Spanish River Carbonatite SRC Plus
Product Family	Spanish River Carbonatite Complex – Pyroxenite, SilicoCarbonatite, Sovite
Recommended Use	Fertilizer soil supplement
Restriction on Use	Not applicable
Manufacturer/Supplier	SRC Agrominerals Inc., 1639 Lasalle Boulevard, Suite 316, Sudbury, Ontario P3A 1Z8, Canada
Emergency Number	705-923-7725

Section 2. Hazard Identification

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015) and the US Hazard Communication Standard (HCS 2012).



Classification

Acute toxicity (Inhalation) - Category 4; Carcinogenicity - Category 2 Label Elements

DANGER:

May cause cancer if inhaled.

May cause respiratory irritation.

May cause damage to organs (lungs) through prolonged or repeated exposure.

Causes eye irritation.

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

Wear protective gloves/protective clothing/eye protection/face protection.

Do not eat, drink or smoke when using this product.

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Wash hands thoroughly after handling.
 Use only outdoors or in a well-ventilated area.
 Avoid breathing dust.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Get medical advice or attention if you feel unwell.

Other Hazards

None known.

Section 3. Composition/Information on Ingredients

Chemical Name

Component	CAS-No	%
Carbonatite ^a	n/a	100
Components		
Sovite (Calcite)	471-34-1	50.0
Pyroxene – Magnesium Iron Silicates & Calcium Silicate (Wollastonite) ^b	1343-88-0, 13983-17-0	10.0
Ijolite (silicocarbonatite) – pyroxene, nepheline ^b	n/a	8.0
Iron (III) Oxide (Fe ₂ O ₃) ^c	1309-37-1	5.0
Mica - Biotite/Vermiculite, (<1% quartz) ^d	10103-46-5	15.0
Apatite (rock phosphate)	n/a	12.00

^a This material is a naturally occurring identified geological formation, (Spanish River Carbonatite Complex), comprised of specific mineral species that compose the above whole rock chemical analysis. This complex mixture has not been tested as a whole.

^b Silica occurs predominantly as magnesium and calcium aluminum silicates and not considered hazardous. Quartz content is currently in trace quantities.

^c Iron oxide occurs as magnetite and weathered ferrous iron; not considered hazardous.

^d Mica contains no crystalline quartz.

Section 4. First Aid Measures

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Keep at rest in a position comfortable for breathing.

Skin Contact

Wash with plenty of water.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion

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Rinse mouth with water. Get medical advice or attention if you feel unwell. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

If inhaled: at high concentrations can cause effects as described for inhalation.

Immediate Medical Attention and Special Treatment

Target Organs

Lungs.

Special Instructions

Monitor cardiovascular function.

Medical Conditions Aggravated by Exposure

Asthma, respiratory conditions.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media

None combustible

Unsuitable Extinguishing Media

Not applicable

Special Hazards Arising from the Product

This product presents no unusual fire hazard.

No known hazardous decomposition products in a fire.

Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Section 6. Accidental Release Measures

Environmental Precautions

None

Release or Spills

Review Section 8 for protection. Dry methods may be used (sweeping, vacuuming) to collect spilled materials. Dust residue on surfaces may be washed with water.

Section 7: Handling and Storage

Precautions for Safe Handling

Avoid creating conditions which release dust. Use mechanical ventilation to control dust levels below PEL. Wear NIOSH N-95 particulate respirator if airborne concentrations exceeds PEL (Permissible Exposure Limit) Do NOT eat, drink or store food in work areas.

Conditions for Safe Storage

No special requirements for storage area.

Section 8. Exposure Controls/Personal Protection

Up to 0.5 mg/m³: (APF = 10) Any particulate respirator equipped with an N95, R95, or P95 filter (including N95, R95, and P95 filtering facepieces) except quarter-mask respirators. The following filters may also be used: N99, R99, P99, N100, R100, P100.

Eye/Face Protection:

Safety goggles suitable for dust protection.

Skin Protection:

No specific requirement, but it is good practice to prevent skin contact.

Resistance of Materials for Protective Clothing:

No specific guidelines are available. Most materials commonly used in protective clothing are probably adequate.

Personal Hygiene:

Remove contaminated clothing. Keep contaminated clothing in closed containers. Discard or launder before re-wearing. Inform laundry personnel of contaminant's hazards. To reduce potential exposure, work clothing should be left at the workplace.

Section 9. Physical and Chemical Properties

Appearance	Light brown, granular
Odour	Odourless
Odour Threshold	Not applicable
pH	7.0
Melting Point/Freezing Point	Not applicable
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Flammability (solid, gas)	Will not burn
Upper/Lower Flammability or Explosive Limit Variable	Not applicable
Vapour Pressure	Not applicable
Vapour Density (air=1)	Not applicable
Relative Density (water=1)	1.8
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not applicable
Viscosity	Not applicable

Particle Characteristics

Brown granular sand, 10% moisture

Screen Size	% Retained
Fineness Rating	60
Tyler Mesh > #10	4.5
Tyler Mesh < #60	36.0
<#10 and >#60	59.5
Tyler Mesh <#100	20.9

Section 10. Stability and Reactivity**Reactivity** None known.**Chemical Stability** Stable.**Possibility of Hazardous Reactions** None known.**Conditions to Avoid** None Known.**Incompatible Materials** Strong oxidizing agents (e.g. hydrochloric, perchloric acid).**Hazardous Decomposition Products** None known.**Section 11. Toxicological Information**

Chronic exposure to carbonatite dust at concentrations exceeding occupational exposure limits may cause pneumoconiosis (lung disease). Prolonged or repeated inhalation of respirable crystalline silica can also cause a lung disorder, silicosis.

Likely Routes of Exposure

Inhalation, skin contact; eye contact; ingestion.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation

Possible mild irritation. Symptoms include slight redness and swelling.

Serious Eye Damage/Irritation

No information from standard tests was located.

STOT (Specific Target Organ Toxicity)

Single Exposure Inhalation May cause nose and throat irritation.

Skin Absorption

No information available.

Ingestion

If large amounts are swallowed irritation of the mouth, throat and stomach.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. Respiratory tract injury has been observed.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

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Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Silica, quartz	Group 1	A2	Known carcinogen	1910.1053(a)

May cause cancer

Reproductive Toxicity Development of Offspring

Does not cause harm to the unborn child.

Sexual Function and Fertility

No information was located.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

Section 12. Ecological Information

Spanish River Carbonatite is ecologically neutral.

Section 13. Disposal Considerations

Waste Disposal Procedures

Dispose according to federal, provincial/state and local environmental regulations. If this product, as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act.

Section 14. Transport Information

Shipping Name Spanish River Carbonatite SRC Plus

Hazard Class None

C.A.S. Number N/A

Reportable Quantity (RQ) None

D.O.T. Number None

Labels Required None

Haz Waste No None

Placard None

EPA Reglst No None

Section 15. Regulatory Information

Safety, Health and Environmental Regulations

Canada Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL or are not required to be listed.

USA Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory

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Section 16. Other Information

References

CHEMINFO database, Canadian Centre for Occupational Health and Safety (CCOHS).

Patricia L. Corcoran, Laurisha Bynoe, and Carolyn M. Hill, (February 2020), Geochemistry of the Spanish River Carbonatite Complex, Western University, Canada.

Martin Torres Dugan & Pablo Rodrigo Leal, (June 2024), Report of Mineralogical Studies and Textural, Spanish River Carbonatite, Universidad de Buenos Aires, Argentina.

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