



Chemical Products Corporation SAFETY DATA SHEET

SDS No. 172

Page 1 of 9 Pages

Approval date September 6, 2023

1. PRODUCT IDENTIFIER

Strontium Carbonate

1.1 Trade Name: Strontium Carbonate - Grade B, Grade D, Type SF

Synonyms: Precipitated Strontium Carbonate; Carbonic Acid, Strontium salt

CAS Number: 1633-05-2

Molecular formula - SrCO₃

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended industrial uses:

- Manufacture of pyrotechnical products
- Use in welding electrode coating
- Glass industry
- Manufacture of glazes, frits and enamels
- Manufacture of ceramic materials and electro-ceramic materials
- Manufacture of other strontium compounds
- Use in zinc electrolysis

Industrial uses advised against: None.

1.3 MANUFACTURER/Supplier of this SDS:

Chemical Products Corporation

102 Old Mill Road SE

Cartersville, Georgia 30120-4127

Telephone: 1-770-382-2144

1.4 EMERGENCY PHONE NUMBER: CHEMTREC, 800-424-9300 (24 hours every day)

2. HAZARD IDENTIFICATION

2.1 Classification in accordance with paragraph (d) of §1910.1200

Not a hazardous substance or mixture based on GHS criteria.

2.2 Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200.

Not a hazardous substance or mixture.

2.3 Other hazards not otherwise classified that have been identified during the classification process

- May cause slight skin irritation.
- Product dust may be irritating to eyes, skin and respiratory system.



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

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>EXPOSURE LIMITS</u>	<u>% BY WT</u>
Strontium Carbonate	1633-05-2	Nuisance Dust – 15 mg/cu m	>= 97%
Barium Carbonate	513-77-9	OSHA PEL: 0.5 mg/cu m as Ba ACGIH TLV-TWA: Same	<= 2.5%

4. FIRST AID MEASURES

4.1 Description of necessary first-aid measures

If swallowed

Rinse mouth with water. Consult a physician.

Give Epsom salts (magnesium sulfate) or Glauber's Salt (sodium sulfate) dissolved in water as a precaution to counteract any effect from the barium carbonate present in this product.

Never give anything by mouth to an unconscious person.

If inhaled

Move person into fresh air. If not breathing, give artificial respiration.

Consult a physician in case of complaints.

For eye contact

Flush opened eye/eyes with large amounts of water for several minutes and get medical attention of irritation persists.

For skin contact

Wash off with soap and plenty of water. Consult a physician if irritation persists.

4.2 Most important symptoms and effects, both acute and delayed

In case of ingestion, acute overexposure would be expected to cause severe abdominal pain related to the release of carbon dioxide gas as strontium carbonate reacts with stomach acid.

- seek medical treatment if you feel unwell after being exposed to this product.



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Strontium Carbonate

SDS No. 172

Page 3 of 9 Pages

4.3 Indication of any immediate medical attention and special treatment needed, if necessary

- no further relevant information is available.

5. FIRE FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media.

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Flashpoint: Non-Flammable.

Flammability: Non-Flammable.

Autoignition: Non-Flammable.

5.2 Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).

Will decompose releasing carbon dioxide gas at extremely high temperatures. Contact with acid will release carbon dioxide gas.

5.3 Special protective equipment and precautions for fire-fighters.

No special equipment is required, but personal protective equipment and self-contained breathing apparatus should be used as a general precaution. Wash away any of this product which may contact the body, clothing, or equipment. Limit water runoff if it is likely to contain this material.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures.

As a general precaution, use standard personal protective equipment.

Avoid dust formation. Avoid breathing dust. Prevent further leakage or spillage.

Ensure adequate ventilation.

6.2 Methods and materials for containment and cleaning up.

Do not let product enter drains. Sweep up and shovel to transfer released material to properly labeled containers. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Dispose of contaminated material as waste according to item 13.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling.

Avoid formation of dust and aerosols. The potential for dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures

- Avoid contact with skin and eyes.
- Wash hands before breaks and at the end of workday.
- When using do not eat, drink or smoke.
- Provide eye wash bottles or eye wash stations in compliance with applicable standards

7.2 Conditions for safe storage, including any incompatibilities.

Keep in a dry place and away from acids. Contact with acids will release Carbon Dioxide gas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters · Components with limit values that require monitoring at the workplace:

OSHA PEL: 0.5 mg Barium/m³

ACGIH TLV-TWA is the same as the OSHA PEL.

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations) is 50 mg Ba/m³.

8.2 Appropriate engineering controls.

The usual precautionary measures for handling chemicals should be followed. Ensure adequate ventilation. Apply technical measures to comply with the occupational exposure limits.

8.3 Individual protection measures, such as personal protective equipment.

Respiratory Protection: Use a NIOSH-approved dust mask if excessive dust is present.

Skin Protection: Cover exposed skin areas and wear general-purpose gloves. The glove material should be impermeable and resistant to the product.

Eye Protection: Wear safety glasses. Use chemical goggles if excessive dust is present.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.): Solid; white or tan powder or granules.

Odor: No data available. Expected to be odorless.

Odor Threshold: No data available.

PH: 7 to 8 – 1% aqueous suspension at 20°C (68°F)

Melting point/Freezing point: > 900°C (> 1,652°F)

Initial boiling point and boiling range: No data available. Decomposes.

Flash point: No data available. Not flammable.

Evaporation rate: No data available.

Flammability (solid, gas): Not flammable.

Upper/lower flammability or explosive limits: No data available. Not flammable

Vapor pressure: No data available.

Vapor density: No data available.

Relative density – Specific Gravity: 3.79 g/cm³

Solubility: slightly soluble in water: about 3.4 mg/l at 20°C (68°F)

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: Thermal decomposition at about 1,300°C

Viscosity: Not applicable.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive with air, water, or alkalis. Decomposed by acids.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of Hazardous Reactions

Contact with acids liberates CO₂, sometimes violently.

10.4 Conditions to avoid (e.g., static discharge, shock, or vibration)

No data available; not sensitive to shock or vibration.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

Hazardous decomposition products may be formed under fire conditions - Carbon oxides, Strontium oxide, Barium oxide



11. TOXICOLOGICAL INFORMATION

11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact)

Most likely route of exposure is expected to be skin and eye contact.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute dermal toxicity: No data available.

Skin corrosion/irritation: No data available.

Respiratory or skin sensitization: No data available.

Specific target organ toxicity - single exposure: No data available.

Specific target organ toxicity - repeated exposure: No data available.

Aspiration hazard: No data available

11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure

Sub-chronic: No data available.

Chronic: No data available.

Teratogenic: No data available.

Reproductive: No data available.

11.4 Numerical measures of toxicity (such as acute toxicity estimates)

No data available for Strontium Carbonate.

Acute oral toxicity for Strontium nitrate

- LD₅₀, rat, > 2,000 mg/kg

11.5 Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

IARC: No component 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: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.



12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity (aquatic and terrestrial, where available)

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available. No appreciable bioconcentration is expected in the environment.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS

Waste containing more than 0.2% soluble barium when subjected to EPA's TCLP test is hazardous under the RCRA criteria. If disposed of in its purchased form, this product may be a characteristic hazardous waste exceeding the soluble barium regulatory limit in the RCRA TCLP test. Barium compounds are rendered insoluble and non-hazardous by reaction with excess sulfate to form insoluble barium sulfate. Any disposal practice must be in compliance with local, state, and federal laws and regulations.

14. TRANSPORT INFORMATION

Hazardous material proper shipping name.....: Not Regulated under DOT, ADN, IMDG, IATA

U.N./N.A. Number.....: Not Regulated under DOT, ADN, IMDG, IATA

Technical Shipping Name.....: Strontium Compound.

Transport Hazard Class.....: Not Regulated under DOT, ADN, IMDG, IATA

Packing group.....: Not Regulated under DOT, ADN, IMDG, IATA



Product R.Q. (lbs.).....: None.
D.O.T. Label.....: None.
D.O.T. Placard: None.
Environmental hazards: Not a Marine Pollutant
Freight Class Bulk.....: Inorganic Chemical.
Freight Class Package.....: Inorganic Chemical.
Product Label.....: Strontium Carbonate.

15. REGULATORY INFORMATION

TSCA Status.....: Listed on TSCA Inventory as ACTIVE
CERCLA Reportable Quantity..... : None.
SARA Title III:
Section 302, Extremely Hazardous Substances.....: None.
Section 311/312, Hazard Categories.....: None.
Section 313, Toxics Release Inventory: Barium Carbonate (Barium Compounds, Code N040) can be expected to be present above the 1.0% *de minimis* reporting level.

California Prop. 65 Components - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.



NFPA Rating (National Fire Protection Association):

Health - 1 (Materials that cause irritation upon exposure, but only minor injury is sustained even if no medical treatment is provided).

Fire - 0 (Materials which are nonflammable).

Reactivity - 0 (Materials which in themselves are normally stable even under fire exposure conditions, and which are not reactive with water).

Special - NA

Reason for Issue..... : Review and reapproval.

Prepared by..... : Jerry A. Cook.

Title..... : Technical Director.

Approval Date..... : September 6, 2023

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SDS Number.....: 172

Disclaimer: The information contained herein is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions; it does not represent any guarantee of the properties of the product. Chemical Products Corporation makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. The data on this sheet relates only to the specific material designated herein. Chemical Products Corporation assumes no legal responsibility for use or reliance upon these data.