

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
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MATERIAL SAFETY DATA SHEET (MSDS)**SILVER CARBONATE LR****1. Product Identification**

Synonyms: None
CAS No.: 534-16-7

Product Coad: S0182300100

Molecular Weight: 275.75
Chemical Formula: CAg_2O_3

2. Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
534-16-7	Silver Carbonate	99	208-590-3

3. Hazards Identification**EMERGENCY OVERVIEW**

Appearance: yellow to yellow-green powder.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Light sensitive. The toxicological properties of this material have not been fully investigated.

Target Organs: None.

Potential Health Effects

Eye: May cause eye irritation. The toxicological properties of this material have not been fully investigated.

Skin: May cause skin irritation. The toxicological properties of this material have not been fully investigated.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated.

Chronic: No information found.

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Get medical aid if irritation or symptoms occur.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower: N/A

Upper: N/A

NFPA Rating: (estimated) Health: ; Flammability: ; Instability:

6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section.

Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

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MATERIAL SAFETY DATA SHEET (MSDS)**SILVER CARBONATE LR****7. Handling and Storage**

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Store protected from light.

Storage: Store in a cool, dry place. Keep container closed when not in use. Store protected from light.

8. Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Silver Carbonate	none listed	none listed	none listed

OSHA Vacated PELs: Silver Carbonate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Respirators: Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

9. Physical and Chemical Properties

Physical State: Powder

Appearance: yellow to yellow-green

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 210 deg C

Decomposition Temperature: 218 deg C

Solubility: Insoluble

Specific Gravity/Density: 6.077

Molecular Formula: CAg_2O_3

Molecular Weight: 275.75

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, light, excess heat, strong oxidants.

Incompatibilities with Other Materials: Acids - light.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, oxides of silver.

Hazardous Polymerization: Has not been reported.

11. Toxicological Information

RTECS#:

CAS# 534-16-7: FG0700000

LD50/LC50:

CAS# 534-16-7:

Oral, mouse: LD50 = 2168 mg/kg;

Oral, rat: LD50 = 3731 mg/kg;

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Carcinogenicity:

CAS# 534-16-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
 Epidemiology: No information available.
 Teratogenicity: No information available.
 Reproductive Effects: No information available.
 Mutagenicity: No information available.
 Neurotoxicity: No information available.
 Other Studies:

12. Ecological Information

No information available.

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

14. Transport Information

Shipping Name:	US DOT	Canada TDG
Hazard Class:	Not regulated as a hazardous material	No information available.
UN Number:		
Packing Group:		

15. Regulatory Information

US FEDERAL

TSCA

CAS# 534-16-7 is listed on the TSCA inventory.
 Health & Safety Reporting List
 None of the chemicals are on the Health & Safety Reporting List.
 Chemical Test Rules
 None of the chemicals in this product are under a Chemical Test Rule.
 Section 12b
 None of the chemicals are listed under TSCA Section 12b.
 TSCA Significant New Use Rule
 None of the chemicals in this material have a SNUR under TSCA.
 CERCLA Hazardous Substances and corresponding RQs
 None of the chemicals in this material have an RQ.
 SARA Section 302 Extremely Hazardous Substances
 None of the chemicals in this product have a TPQ.
 SARA Codes
 CAS # 534-16-7: delayed.
 Section 313
 This material contains Silver Carbonate (listed as Silver compounds), 99%, (CAS# 534-16-7) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.
 Clean Air Act:
 This material does not contain any hazardous air pollutants.
 This material does not contain any Class 1 Ozone depleters.
 This material does not contain any Class 2 Ozone depleters.
 Clean Water Act:
 None of the chemicals in this product are listed as Hazardous Substances under the CWA.
 None of the chemicals in this product are listed as Priority Pollutants under the CWA. CAS# 534-16-7 is

listed as a Toxic Pollutant under the Clean Water Act.

OSHA:
 None of the chemicals in this product are considered highly hazardous by OSHA.
 STATE

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MATERIAL SAFETY DATA SHEET (MSDS)**SILVER CARBONATE LR**

CAS# 534-16-7 can be found on the following state right to know lists: California, (listed as Silver compounds), Pennsylvania, (listed as Silver compounds).

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 534-16-7: 1

Canada - DSL/NDSL

CAS# 534-16-7 is listed on Canada's NDSL List.

Canada - WHMIS

WHMIS: Not available.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 534-16-7 is not listed on the Canadian Ingredient Disclosure List.

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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