

Section 1. Product and Company Identification

Product Name Silver Carbonate
CAS Number 534-16-7

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

OSHA Hazards: Avoid breathing dust, may irritate delicate tissues

GHS Classification

Acute toxicity, Oral (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H303: May be harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.

Precautionary Statements

P264: Wash thoroughly after handling
P280: Wear protective gloves/eye protection/face protection
P302+352: If on skin: Wash with soap and water
P332+313: If skin irritation occurs: Get medical advice/attention



P362: Take off contaminated clothing and wash before reuse
P305+351+338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
P337+313: If eye irritation persists get medical advice/attention
P261: Avoid breathing dust
P271: Use only in a well-ventilated area
P304+340: If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312: Call a poison center or doctor/physician if you feel unwell
P403+233: Store in a well ventilated place. Keep container tightly closed
P501: Dispose of contents/container in accordance to all regulations.

Section 3. Composition / Information on Ingredients

Common Name Silver Carbonate
Synonym(s) Silver Monocarbonate
Formula CO_3Ag_2
CAS Number 534-16-7

COMPONENT	CAS NUMBER	CONCENTRATION
Silver Carbonate	534-16-7	≥ 99%

Section 4. First Aid Measures

Effects of Overexposure: Irritating to skin if allowed to remain in contact. Irritating to eyes and upper respiratory tract. May cause Argyria (a slate gray or bluish discoloration of the skin and deep tissue due to the deposit of insoluble Silver Albuminate).

Behavior: Excitement or Ataxia (loss of coordination of external muscles)

Routes of Entry:

Eye: Causes eye irritation

Skin: Causes skin irritation.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.

Chronic: Prolonged or repeated eye contact may cause conjunctivitis.

Emergency and First Aid: Not to be construed as a medical recommendation

General: Immediately flush area with copious amounts of water. Remove contaminated clothing and wash before re-use.

Eyes: Flush with water for 15 minutes. Consult a physician.

Lungs: Remove victim to fresh air administer artificial respiration or oxygen if needed.

Ingestion: Induce vomiting. Consult physician.

Skin: Wash affected areas with abundant amounts of soap and water. Get medical aid if irritation develops or persists.



Section 5. Firefighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Flash Point: N/A

Extinguishing Media: Water, Carbon dioxide, dry chemical powder, or appropriate foam.

Special Firefighting Procedures: Self-contained breathing apparatus recommended

Unusual Fire and Explosion Hazards: May decomposed in hot fire to form flammable or toxic decomposition products.

Section 6. Accidental Release Measures

Steps to be taken in case material is released or spilled: Wear protective clothing. Avoid raising dust. Sweep up spill and containerize for disposal. Small spills may be washed into plant disposal system. Follow all applicable regulations.

Section 7. Handling and Storage

Handling: Avoid contact with food items. Avoid breathing dust. Avoid contact with skin and eyes. Wash yourself thoroughly after handling.

Storage: Store in a cool, dry place. Store in tightly sealed drums. Light sensitive.

Section 8. Exposure Controls / Personal Protection

Facility must contain safety shower, eye bath and mechanical exhaust.

Respiratory: Dust mask desirable. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN(EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN143) respirator.

Ventilation: Local exhaust: not required. Mechanical: preferred.

Protective Gloves: Rubber or Buna-N

Eyes: Safety Goggles

Hygiene: Wash thoroughly after handling

Exposure Limits

Country	Source	Type	Value
USA	ACGIH	TWA	0.01 mg(ag)/m ³
USA	MSHA Standard-air	TWA	0.01 mg(ag)/m ³



Section 9. Physical and Chemical Properties

Formula Weight: 275.75
Melting Point: 210°C, (410°F)
Boiling Point: N/A
Vapor Pressure: Low
Solubility in Water: 10.2 g/L (20°C)
Percent Volatile: N/A
Specific Gravity (25°C/77°F): 6.08 g/cm³
Appearance and Odor: White crystalline solid, practically odorless- faint beige powder

Section 10. Stability and Reactivity

Stability: Stable
Incompatibility: Reacts with strong acids, strong oxidizing agents.
Conditions of Instability: Will discolor on exposure to light.
Hazardous decomposition products: May liberate Silver oxides and CO and CO₂
Hazardous polymerization: Will not occur

Section 11. Toxicological Information

RTECS Number: FG0700000
Threshold Limit Value: Not established
ACGIH: No
NTP Carcinogen: No
IARC Monographs: No
LD50 (Oral-rat): 3731 mg/kg
Remarks: Lungs, Thorax, or Respiration: Dyspnea.
Behavioral: Tetany. Cyanosis Diarrhea.

Section 12. Ecological Information

Toxicity: No data available
Persistence and degradability: No data available
Bioaccumulative potential: No data available
Mobility in soil: No data available
PBT and vPvB assessment: No data available
Other adverse effects: No data available

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.



Section 14. Transport Information

HMIS Rating

Health: 1 [Slight hazard]

Flammability: 0 [Minimal Hazard]

Reactivity: 0 [Minimal Hazard]

Personal Protection: F [Safety glasses, gloves, synthetic apron, dust mask]

Freight classification: Chemicals, nos

Section 15. Regulatory Information

Inventory Status

TSCA (USA): Yes

NDSL (Canada): Yes

REACH (Europe): a pre-registered substance

EINECS (Europe): Yes

ENCS (Japan): Yes

AICS (Australia): Yes

ECL (Korea): Yes

SWISS: Giftliste 1 (31 May, 1999)

Toxic Category 3

ASAI-PAC: Yes

NZIoC: on 2006 inventory. This substance has HSNO approval

US Classification and Label Text

Indication of Danger: Irritant.

Risk Statements: Irritating to eyes, respiratory system and skin.

Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable gloves and eye/face protection.

United States Regulatory Information

SARA Listed: Yes

DEMINIMIS: 1%

NOTES: This product is subject to SARA section 313 reporting requirements - silver compounds.

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: No

NDSL: Yes



Section 16. Other Information

Disclaimer: The above information 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.

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