



SECTION 1: Product Identification

Chemical Name:	Silver carbonate (99+%-Ag)
Product Number:	703
CAS Registry Number:	534-16-7
Formula:	Ag ₂ CO ₃
EINECS Number:	208-590-3
Chemical Family:	metal carbonate
Synonym:	Disilver carbonate

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title Compound	534-16-7	100	0.01mg/m ³ (as Ag-sol)	0.01mg/m ³ (as Ag-sol)

SECTION 3: Hazards Identification

Emergency Overview:	Irritating to eyes, skin and respiratory tract. May be harmful if swallowed
Primary Routes of Exposure:	Inhalation, skin, eyes
Eye Contact:	Causes slight to mild irritation of the eyes.
Skin Contact:	Causes slight to mild irritation of the skin. Contact with the skin can lead to formation of dark blotches (silver staining)
Inhalation:	Irritating to the nose, mucous membranes and respiratory tract.
Ingestion:	Ingestion may lead to dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, and convulsions.
Acute Health Effects:	Irritating to skin, eyes and respiratory tract.
Chronic Health Effects:	Long term exposure to silver and silver salts can lead to the condition known as argyria - a general gray pigmentation of the skin and mucous membranes.
NTP:	No
IARC:	No
OSHA:	No



SECTION 4: First Aid Measures

Eye Exposure:	Immediately flush the eyes with copious amounts of water for at least 10-15 minutes. A victim may need assistance in keeping their eye lids open. Get immediate medical attention.
Skin Exposure:	Wash the affected area with water. Remove contaminated clothes if necessary. Seek medical assistance if irritation persists.
Inhalation:	Remove the victim to fresh air. Closely monitor the victim for signs of respiratory problems, such as difficulty in breathing, coughing, wheezing, or pain. In such cases seek immediate medical assistance.
Ingestion:	Seek medical attention immediately. Keep the victim calm. Give the victim water (only if conscious). Induce vomiting only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point:	not applicable
Autoignition Temperature:	none
Explosion Limits:	none
Extinguishing Medium:	none required
Special Fire Fighting Procedures:	If involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing.
Hazardous Combustion and Decomposition Products:	None
Unusual Fire or Explosion Hazards:	No unusual fire or explosion hazards.

SECTION 6: Accidental Release Measures

Spill and Leak Procedures:	Small spills can be mixed with powdered sodium carbonate or ground limestone and swept up.
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SECTION 7: Handling and Storage

Handling and Storage:	Store material in a tightly sealed bottle away from moisture.
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SECTION 8: Exposure Controls and Personal Protection

Eye Protection:	Always wear approved safety glasses when handling a chemical substance in the laboratory.
Skin Protection:	Wear appropriate chemical resistant gloves and protective clothing.
Ventilation:	If possible, handle the material in an efficient fume hood.
Respirator:	In the absence of adequate ventilation a respirator should be worn. The use of a respiratory requires a Respirator Protection Program to be in compliance with 29 CFR 1910.134.
Additional Protection:	No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form:	yellow to pale green pwdr.
Molecular Weight:	275.75
Melting Point:	218°C
Boiling Point:	no data
Vapor Pressure:	no data
Specific Gravity:	6.077
Odor:	none
Solubility in Water:	.0032g/100cc (20°C)

SECTION 10: Stability and Reactivity

Stability:	light sensitive
Hazardous Polymerization:	no hazardous polymerization
Conditions to Avoid:	Strong acids
Incompatibility:	decomposes on prolonged exposure to light
Decomposition Products:	none

SECTION 11: Toxicological Information



RTECS Data: Oral (rat); LD50: 3731 mg/kg. Intraperitoneal (rat); LD50: 156 mg/kg. Oral (mouse); LD50: 2168 mg/kg. Intraperitoneal (mouse); LD50: 39 mg/kg. Oral (guinea pig); LD50: 835 mg/kg.

Carcinogenic Effects: no data

Mutagenic Effects: no data

Teratogenic Effects: no data

SECTION 12: Ecological Information

Ecological Information: Avoid release to the environment. Harmful to aquatic organisms.

SECTION 13: Disposal Considerations

Disposal: Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name (CFR): Non-hazardous

Hazard Class (CFR): NA

Additional Hazard Class (CFR): NA

Packaging Group (CFR): NA

UN ID Number (CFR): NA

Shipping Name (IATA): Non-hazardous

Hazard Class (IATA): NA

Additional Hazard Class (IATA): NA

Packaging Group (IATA): NA

UN ID Number (IATA): NA

SECTION 15: Regulatory Information



TSCA:	Listed in the TSCA inventory.
SARA (Title 313):	Title compound: see category code N740 for reporting
Second Ingredient:	none
Third Ingredient:	none