



# SAFETY DATA SHEET

Preparation Date: 7/6/2017 Revision Date: 7/6/2017 Revision Number: G1

1. IDENTIFICATION **Product identifier** SI120 Product code: **Product Name:** SILVER PROTEIN, MILD Other means of identification Mild silver protein; Protargol; Protargin; Silver protein complexes; Silver proteinate Synonyms: 9015-15-4 CAS #: RTECS# UK9510000 Not available CI#: Recommended use of the chemical and restrictions on use No information available. Recommended use: Uses advised against No information available Supplier: Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000. https://www.spectrumchemical.com **Order Online At:** Chemtrec 1-800-424-9300 Emergency telephone number **Contact Person:** Martin LaBenz (West Coast) Ibad Tirmiz (East Coast) **Contact Person:** 2. HAZARDS IDENTIFICATION Classification This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Not a dangerous substance or mixture according to the Globally Harmonized System (GHS) Label elements Not classified

Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards Not available

Product code: SI120 Product name: SILVER PROTEIN, 1/10

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Silver Protein, Mild	9015-51-4	100

# 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin irritation. Health injuries are not known or expected under normal use.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

# 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Dry powder. Carbon dioxide (CO2). Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

**Specific hazards:** May be combustible at high temperatures.

**Special Protective Actions for Firefighters** 

**Specific Methods:**No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Remove all sources of ignition. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent

spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

# Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapors or spray mist. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

# **Technical Measures/Storage Conditions:**

Keep containers tightly closed in a cool, well-ventilated place. Store at room temperature in the original container. Protect from light. Sensitive to light. Store in light-resistant containers. Hygroscopic. Protect from moisture. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents

Acids

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

# National occupational exposure limits

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Silver Protein, Mild	9015-51-4	None	None	None	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Silver Protein, Mild	9015-51-4	None	None	None	None

#### **Australia and Mexico**

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Components	CAS-No.	Australia	Mexico
Silver Protein, Mild	9015-51-4	None	None

# **Appropriate engineering controls**

Ensure adequate ventilation. Use process enclosures, Engineering measures to reduce exposure:

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

# Individual protection measures, such as personal protective equipment

# **Personal Protective Equipment**

Goggles or Safety glasses with side-shields Eye protection:

Skin and body protection: Chemical resistant apron

Gloves

Long sleeved clothing

Respiratory protection: Respiratory protection is not necessary for normal handling. Good room

> ventilation or use of local exhaust (fume hood) is sufficient. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to

use an approved/certified respirator or equivalent.

Avoid contact with skin, eyes and clothing. Wash hands and face before breaks Hygiene measures:

and immediately after handling the product. When using, do not eat, drink or

smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Granules. Brown. Dark brown. Solid

Odor: Formula: Taste

No information available. No information available. No information available

Molecular/Formula weight: Flammability: Flashpoint (°C/°F): No information available No information available. No information available

Flash Point Tested according to:

Autoignition Temperature (°C/°F): **Lower Explosion Limit (%):** No information available No information available Not available

**Upper Explosion Limit (%):** Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available No information available No information available

Boiling point/range(°C/°F): **Bulk density:** Density (g/cm3):

No information available No information available No information available

Vapor pressure @ 20°C (kPa): Specific gravity:

No information available No information available No information available

**Evaporation rate:** 

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No information available Vapor density:

No information available

VOC content (g/L): No information available

Viscosity:

**Partition coefficient** Odor threshold (ppm):

No information available (n-octanol/water):

No information available

No information available

Miscibility: Solubility:

Insoluble in Alcohol No information available Insoluble in Ether

Slowly soluble in cold water

# 10. STABILITY AND REACTIVITY

Reactivity

No information available

**Chemical stability** 

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Heat. Avoid dust formation. Incompatible materials. Conditions to avoid:

**Incompatible Materials:** Strong oxidizing agents

Acids

Hazardous decomposition

products:

No information available.

Other Information

No information available Corrosivity:

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Principal Routes of Exposure:** 

Inhalation. Ingestion.

#### **Acute Toxicity**

#### **Component Information**

Silver Protein, Mild

CAS-No. 9015-51-4

LD50/oral/rat = No information available

**LD50/oral/mouse** = No information available

**LD50/dermal/rabbit** = No information available

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

**LC50/inhalation/mouse** = No infomation available

Other LD50 or LC50information = No information available

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#### **Product Information**

LD50/oral/rat =

**VALUE-** Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

**VALUE -Acute Tox Dermal =** No information available

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available

**VALUE-Dust/Mist** = No information available

LC50/Inhalation/mouse

**VALUE-Vapor** = No information available **VALUE - Gas** = No information available

**VALUE - Dust/Mist =** No information available

**Symptoms** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** No information available.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Silver Protein, Mild	9015-51-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

# 13. DISPOSAL CONSIDERATIONS

# **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Silver Protein, Mild	9015-51-4	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine Pollutant No data available

DOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

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UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

**RID** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**ICAO** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

# 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Silver Protein, Mild	9015-51-4	Not Listed	Not present	Not present	Not present	Present	Present	Not present

# **U.S. Regulations**

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

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#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

# Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Silver Protein, Mild	9015-51-4	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Silver Protein, Mild	9015-51-4	None	None	None	None	None

#### U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Silver Protein, Mild	9015-51-4	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

# WHMIS 1988 Hazard Class

Non-controlled

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
ISIIVAT Protein IVIIIA	9015-51-4	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Silver Protein, Mild	9015-51-4	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Silver Protein, Mild	9015-51-4	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 172/2008

Components CAS-No. EU GHS - SV - CLP (172/2008)		
	Components	EU GHS - SV - CLP (1/2/2006)

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Silver Protein, Mild	9015-51-4	

#### EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Silver Protein, Mild	9015-51-4		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

None.

# **16. OTHER INFORMATION**

Preparation Date: 7/6/2017
Revision Date: 7/6/2017
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet** 

Product code: SI120 Product name: SILVER PROTEIN, 10 / 10