



MATERIAL SAFETY DATA SHEET

SILVER GOOP®

February 2010

1. PRODUCT IDENTIFICATION

SILVER GOOP®: High temperature antiseize thread lubricant

Manufactured by:
Swagelok Company
29495 F.A. Lennon Dr
Solon, Ohio 44139
Tel: (440) 349-5600
Fax: (440) 519-3304

Emergency Contact:
Chemtrec (800) 424-9300

2. INGREDIENTS

Table with 4 columns: Ingredients, CAS #, WT%, PEL. Rows include Castor Oil, Silver, Talc, Organophilic Clay, and Magnesium Oxide.

3. HEALTH HAZARD INFORMATION

- Special Hazards for man or environment: R 36/37/38 - Irritating to eyes, respiratory system and skin
LC50/LD50 Not Available

Routes of Entry

Table with 5 columns: Skin Contact, Skin Absorption, Eye Contact, Inhalation, Ingestion. All cells contain 'Yes'.

4. FIRST AID MEASURES

- If inhaled (Overexposure): If person is affected by fumes, remove person to fresh air. Seek medical attention.
After contact with skin (Overexposure): Wash thoroughly with soap and water. If severe irritation develops, seek medical attention.
After contact with eyes: Rinse thoroughly with water for 15 minutes, seek medical attention. Do not rub eyes.
If swallowed: May cause nausea or diarrhea. Seek medical attention.
Medical Information: May cause Argyrosis Cornea and disturbances in vision if substance is rubbed into eyes. Repeated or prolonged exposure to silver dust may cause skin discoloration (Local Argyria). Allergic asthmatic reactions may occur in persons previously exposed to castor oil.



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5. FIRE FIGHTING MEASURES

- Suitable extinguishing agents: Carbon dioxide, foam, agent suitable for environment.
- Not suitable for safety reasons: None known.
- Special dangers caused by substance or preparation itself, by combustion products or gases formed: May decompose above 540°F/282°C to produce carbon monoxide, carbon dioxide, and acrolein.
- Additional information: None.

Autoignition	UEL	LEL	Sensitivities
Not Applicable	Not Available	Not Available	Not Available

6. ACCIDENTAL RELEASE MEASURES

- Measures for protection of people: Wear necessary protective equipment. Eye and hand protection as needed.
- Measures for protection of the environment: None required.
- Cleaning measures: Use absorbent material and suitable cleaner.
- Additional information: None.

7. HANDLING AND STORAGE

- Safety information: None.
- Information on protection from fire or explosion: May decompose above 540°F/282°C to produce carbon monoxide, carbon dioxide, and acrolein.
- Additional information: Store in a cool, dry place for optimal product performance.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Precautionary measures to protect employees: None required.
- Respiratory protection: None.
- Hand protection: Rubber gloves are recommended to minimize exposure.
- Eye protection: Safety glasses or goggles are recommended to minimize exposure.
- Skin protection: Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Silver paste	Odor Neutral	pH Not Applicable	Density 1.2 g/cm ³	Vapor Pressure Not Available
Boiling Point Not Available	Melting Point Not Available	Flash Point >545°F / 285°C	Flammability Not Available	Explosive Not Applicable



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10. STABILITY AND REACTIVITY

- Conditions to avoid: May decompose above 540°F/282°C to produce carbon monoxide, carbon dioxide, and acrolein.
- Materials to avoid: Strong oxidizing agents such as oxygen, chlorine, and fluorine. Oxidizing acids like oxalic, tartaric, and nitric acid. Strong reducers, free radical initiators, inert gases, oxygen scavengers. Acetylene, acetylenic compounds, hydrogen peroxide, phosphorus pentachloride, chlorine trifluoride, and bromine pentafluoride.
- Hazardous decomposition products: See Section 5.

11. TOXICOLOGICAL INFORMATION

- Acute toxic properties: None known.
- Health effects: See Sections 4 and 5.
- Additional health effects: None known.

Sensitization	Teratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products	Carcinogenicity
Allergic reaction may be caused if previously exposed to castor oil	Not Available	Not Available	Not Available	Not Available	Listed ingredients are not suspected carcinogens according to NTP, IARC, and OSHA

12. ECOLOGICAL INFORMATION

- Mobility: Paste-like viscosity.
- Degradability: Not established.
- Accumulation: No known adverse bioaccumulation or biomagnification effects known.
- Short/Long term effects on ecotoxicity: No known ecological effects.

13. DISPOSAL CONSIDERATIONS

- Appropriate methods of disposal: Product is a hazardous waste when disposed of in the United States. Dispose of in a responsible manner.
- European Community (EC) considerations: Use appropriate waste codes based on ingredients.

14. TRANSPORT INFORMATION

- Transport precautions: Consult applicable regulations when transporting this product.
- Additional information: None.



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15. REGULATORY INFORMATION

- EC regulations: This product has been classified under CHIP-96 guidelines based on chemical content.
- US/Canadian regulation listings: SARA 313 - Silver, TSCA - YES, Canada's Controlled Products – Silver, Castor Oil, Magnesium Oxide.
- EC Relevant risk: Xi - Irritant danger group, R: 36/37/38
- EC Relevant safety: S: 37/39 - Wear suitable gloves and eye/face protection.
S:20 - When using do not eat or drink.
- Additional information: Consult country codes for specific requirements.

16. OTHER INFORMATION

- Further information contact: Your Swagelok Distributor or the contacts listed in Section 1 of this sheet.
- Sources of information used to compile document: Properties of individual ingredients were used to compile this document. This Material Safety Data Sheet was designed to give the distributors and users of SILVER GOOP[®] information to handle and use the product in a responsible manner.

Preparation Data		
Environmental and Safety Department	(440) 349-5962	February 2007