

SAFETY DATA SHEETS

This SDS packet was issued with item:

078050437

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078784073 078925960 078944189



SAFETY DATA SHEET

1.0 IDENTIFICATION

Product: Grafco® Silver Nitrate Applicators

General Use: Cauterization of wounds and ulcers

Company Name:
GF Health Products, Inc.

Emergency Telephone Number:
800-472-4346 (Normal Business Hours)

Address:
2935 Northeast Parkway
Atlanta, GA 30360

Telephone Number for Information:
800-472-4346 (Normal Business Hours)

Date Issued: 08/13/2003

Date Revised: 06/01/2015

**CHEMTREC CHEMICAL TRANSPORTATION 24 HOUR EMERGENCY TELEPHONE
DOMESTIC/ NORTH AMERICA 800-424-9300
INTERNATIONAL 703-527-3887 (CALL COLLECT)**

2.0 HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Silver nitrate/potassium nitrate solid impregnated on tip of wooden applicator is a strong irritant to skin and tissue.

Danger - Toxic if ingested, **Pictogram** – Skull and Crossbones

Primary Route(s) of Entry (for product): Inhalation: No Skin: Yes Ingestion: No Other: No

POTENTIAL HEALTH EFFECTS:

Note: Since the product has not been tested as a whole, the health effects of the individual ingredients are given in order to provide adequate warning to persons using the silver nitrate applicators.

Acute Effects of Overexposure:

Eye Contact: Contact with silver nitrate/potassium nitrate solid impregnated on tip of wooden applicator may cause irritation, the degree of which depends on the concentration and period of contact. Symptoms may include burning, tearing, and redness.

Skin Contact: Contact with silver nitrate/potassium nitrate solid impregnated on tip of wooden applicator may cause irritation, the degree of which depends on the concentration and period of contact. Symptoms may include redness and burning.

Inhalation: Inhalation of airborne silver nitrate particles may cause irritation of the respiratory tract.

Ingestion: Poisonous. If swallowed, can cause severe gastroenteritis and can be fatal. Due to its causticity, large doses of ingested silver nitrate may cause a burning sensation in the throat, violent abdominal pain, vomiting, collapse, and death.

Chronic Effects of Overexposure:

It is reported in the literature that chronic introduction of significant amounts of silver compounds into the blood stream and subsequent deposition of the reduced silver in various tissues of the body may result in the production of a generalized permanent grayish pigmentation of the skin and mucous membranes, a condition known as argyria, with no constitutional symptoms and no physical disability. The introduction of fine particles of silver through breaks in the skin produces a local pigmentation at the site of the injury. Localized argyria of the skin is rare. It has been concluded that on the average, 3.8 grams of orally administered silver nitrate causes argyria. The inhalation of silver powder over long periods has been concluded to cause pulmonary changes.

Chronic exposure to potassium nitrate can cause anemia, nephritis and methemoglobinemia.

Carcinogenicity: NTP: No IARC Monographs: NO OSHA: No

Medical Conditions Generally Aggravated by Exposure (to silver nitrate): Pre-existing diseases of the lungs, skin, eye, and other mucous membranes.

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS Number	% Weight	OSHA Airborne Particulate Permissible Exposure Limit (PEL, TWA^A)	ACGIH Airborne Particulate Threshold Limit Value (TLV₁TWA₁)
Silver Nitrate ^B	7761-88-8	75	0.01 mg/m ³	0.01 mg/m ³ , as AG metal
Potassium Nitrate	7757-79-1	25	Not established ^C	Not established ^C

NOTE: The chemicals above are impregnated into the tip of a wooden applicator. The weight percentages indicated above represent the relative proportions of the active ingredients and do not take into account the weight of the applicator¹.

^ATWA – Values given are 8 hour time-weighted averages, unless otherwise specified.

^BDenoted ingredient is a SARA Title III, Section 131 listed toxic chemical (silver compounds).

^CNot established – Substance not assigned a specific PEL or TLV. Substance regulated by OSHA as particulates not otherwise regulated (PNOR, PELs – 15 mg/m³ total dust. 5 mg/m³ respirable fraction) and by ACGIH as particulates not otherwise classified (PNOC, TLV – 10 mg/m³ total dust containing no asbestos and less than 1% crystalline silica) and is considered nuisance dust.

4.0 FIRST-AID MEASURES

Inhalation: Remove to fresh air and seek medical attention.

Eye Contact: With eyes held wide open, wash thoroughly with water for 15 minutes. Do not wear contact lenses.

Skin Contact: Immediately remove contaminated clothing and wash thoroughly with soap and water.

Ingestion: Drink copious amounts of water or milk. Avoid vomiting which may cause risk of perforation. Seek medical attention.

5.0 FIRE-FIGHTING MEASURES

Flash Point (Method Used): For product, not applicable.

Flammable Limits: Not applicable for product LEL: Not applicable UEL: Not applicable

Autoignition Temperature: Not applicable for product.

General Hazard: The impregnated solid is an oxidizer. May release toxic or irritating vapors under fire conditions.

Fire Fighting Instructions: As appropriate for surrounding fire. It is not believed that the product would be a significant hindrance to extinguishing methods used for the surrounding fire, due to the small amount of impregnated chemical solid and product form.

Fire Fighting Equipment: Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing, including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with a full face-piece, operated in the positive pressure mode when fighting fires.

Hazardous Combustion Product: Acrid/irritating smoke, oxides of nitrogen, potassium oxide, and oxides of carbon.

NFPA Rating: Health: 1 Flammability: 1 Reactivity: 0 Special: OX (oxidizer)

6.0 ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled: Not applicable for product in final form (solid silver nitrate/potassium nitrate impregnated on tip of wooden applicator). Dispose of spent applicators in accordance with applicable federal, state, and local regulations.

7.0 HANDLING AND STORAGE

Storage Temperature and Pressure: Ambient temperature and pressure are adequate. This section lists precautions for safe handling and storage, including incompatibilities.

General: Store product in a dark, dry location, away from organic or other readily oxidizable materials. Keep container closed when not in use. Do not use in eyes. Keep away from children.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Local and/or general ventilation, as needed, to reduce employee exposures to below applicable OSHA PELs and ACGIH TLVs (see SECTION 3.0 COMPOSITION INFORMATION ON INGREDIENTS FOR PELs and TLVs), or other industry standards or guidelines on exposure. If respiratory protection is required, all appropriate requirements as set forth in 29 CFR 1910.134 must be met. A competent health professional should be consulted for respirator selection. Due to final product form and use, it is not believed that PELs or TLVs will be exceeded.

Protective Gloves: Latex, vinyl or rubber examination gloves in order to prevent unnecessary or accidental skin contact.

Eye Protection: Safety glasses to prevent accidental contact.

Other Protective Clothing or Equipment: No special clothing necessary.

9.0 PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Decomposes @444° C, for silver nitrate	Freezing Point:	Not applicable
Vapor Pressure (mm Hg):	Not applicable	Specific Gravity (H2O=1):	>1, for silver nitrate
Vapor Density (AIR =1):	Not applicable	Evaporation Rate:	Not applicable
Melting Point:	414°F (212°C) for silver nitrate 663° (334°C) for potassium nitrate	Solubility in water:	Soluble, for silver nitrate
Appearance and Odor:	Grayish solid impregnated on tip of wooden applicator, practically odorless.		

10.0 STABILITY AND REACTIVITY

Stability: Product is stable at ambient temperature and pressure. Exposure of product to light may cause oxidation and discoloration of the impregnated applicator.

Conditions to avoid: Contact of product with easily oxidizable materials and other incompatible materials. Heat or high temperature may cause solid in tip of product to

decompose, possibly releasing small amount of toxic or irritating vapors.

Incompatible Materials: Easily oxidizable materials.

Silver Nitrate is incompatible with alkalis, antimony salts arsenites, bromides, carbonates, chlorides, iodides, vegetable decoctions and extracts; acetylene, acetylene + ammonium hydroxide, acetylides, ammonium hydroxide, arsenic, chloride phosphine, phosphonium iodide, phosphorous isocyanate, and plastics.

Potassium Nitrate is incompatible with antimony, antimony trisulfide, arsenic, arsenic disulfide, barium sulfide, boron, boron phosphide, calcium sulfide, copper phosphide, fluorine, germanium, germanium sulfide, sodium acetate, sodium hypophospite, sodium peroxide + dextrose, sulfur + arsenic trisulfide, titanium, titanium disulfide, trichloroethylene, zinc, zirconium.

Hazardous Decomposition: When heated to decomposition, will emit small amounts of toxic NO_x fumes and potassium oxide.

Hazardous Polymerization: Will Not Occur.

11.0 TOXICOLOGICAL INFORMATION

For silver nitrate

LD₅₀ oral mouse – 50 mg/kg

LDLo unknown route, man – 29 mg/kg

Eye rabbit – 1 mg, severe irritation

For potassium nitrate:

LD₅₀ oral rabbit – 1901 mg/kg

Other toxicity data exist in literature.

12.0 ECOLOGICAL INFORMATION

No data available.

13.0 DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose of in accordance with applicable federal, state, and local regulations. Consult an expert on the disposal of spent or recovered material. A qualified professional should perform a solid waste determination.

14.0 TRANSPORT INFORMATION

DOT Hazard Classification: OXIDIZER

Potassium Nitrate: UN 1486

Silver Nitrate: UN 1493

Regulatory Reference: 49CFR 172.101

IATA: Nitrates, inorganic, n.o.s. UN# 1477

15.0 REGULATORY INFORMATION

EPA SARA Title III Hazard Categorization: Based on the components of the tip of the silver nitrate applicators, the product is categorized as an immediate (acute) health hazard and delayed (chronic) health hazard.

FEPA SARA Title III Section 302 Extremely Hazardous Substances (EHSs): No ingredients in this product are listed as an EHS under Section 302 of SARA Title III.

16.0 OTHER INFORMATION

All information, recommendations, and suggestions appearing herein concerning the product are based upon data believed to be reliable. It is the user's responsibility to determine that safety, toxicity, and suitability for their own use of the product described herein, and to comply with all applicable regulations. Since the actual use by others is beyond the SDS developer's control, no guarantee, expressed or implied is made by GF Health Products, Inc., as to the effects of such use, the results to be obtained or the safety and toxicity of the product nor does GF Health Products, Inc. assume any liability arising out of use by others of the product referred to herein. This SDS is not intended as a license to operate under, or recommendation to infringe on, any patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

Note: CHEMTREC and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used only in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to GF Health Products, Inc., for assistance.

PREPARED BY: GF Health Products, Inc.
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