

MATERIAL DATA SAFETY SHEET  
(Prepared According to 29 CFR 1910.2100)

SECTION 1: IDENTIFICATION:

Manufacturer: Summit Industries Inc.  
PO Box 7326  
Spray Gel  
Marietta, GA 30065  
770-590-0600

Identity: Silver Nano-Hydrogel  
Product Trade Name: NanoSil  
Topical Wound Dressing  
Emergency: 800-241-6996

SECTION 2: HAZARDOUS INGREDIENTS:

None

OTHER INGREDIENTS:

Sub-Colloidal Metallic Silver.  
Purified Water.  
Sodium, Magnesium, Silica Gel.

SECTION 3: PHYSICAL AND CHEMICAL DATA:

Description: Colorless, odorless water gel of metallic silver.  
Median silver particle size <0.01 micron.  
A.W. (Silver) 107.87    M.P. 0°C.    B.P. 100°C.    pH 6.5-7.5

SECTION 4: FIRE AND EXPLOSION HAZARD DATA:

Product as shipped is nonflammable and non-explosive.

SECTION 5: REACTIVITY DATA

Product is non-reactive under normal conditions. May form silver salts on exposure to acids.

SECTION 6: HEALTH HAZARD DATA:

Product as shipped is not irritating to skin, lungs, eyes or mucous membranes.

SECTION 7: INGREDIENTS / HEALTH HAZARD INFORMATION:

<u>Component</u>	<u>CAS No.</u>	<u>%</u>	<u>Exposure Limited Reference</u>
Silver		0.0010%	0.1 mg/m <sup>3</sup> TLV (ACGIH 1987-88) 0.01 mg/m <sup>3</sup> PEL (OSHA-Dust & Fume)

SECTION 8: ENVIRONMENTAL INFORMATION:

Spill or Release to the Environment: No special procedures are required for cleanup of spills or leaks of this material. Avoid methods that result in water pollution. This product may be toxic to fish or other aquatic life. Caution should be exercised regarding personnel safety and exposure to the spilled material, as set forth elsewhere in this data sheet.

Notification: The reportable quantity for silver metal is 1,000 pounds. \* Any spill or other release of this material to the air, water or land (unless entirely contained in the workplace) equal to or in excess of the reportable quantity must be reportable immediately to the National Response

Center (800/424-8802) as required by U.S federal Law. Failure to report may result in substantial civil and criminal penalties.

Unless it results in exposure to persons solely within the boundaries of the facility, any release of a reportable quantity or greater of this material must also be reported immediately to the community emergency coordinator for the local emergency planning committee and to the State emergency response commission. Failure to report may result in substantial civil and criminal penalties.

\*No reporting of release of this hazardous substance is required if the diameter of the solid metal released is equal to or exceeds 100 micrometers (0.004 inches). Due to the low silver content of this product, it is extremely unlikely that a reportable spill could ever occur.

#### SECTION 9: STORAGE AND DISPOSAL

Waste Disposal: Elemental silver, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. However, it could be hazardous if it is considered toxic, corrosive, ignitable, from a waste exceeds the maximum concentration of silver for the toxicity characteristic, then that waste has the EPA Hazardous Waste Number D011. (See 40 CFR 261)

#### SECTION 10: TRANSPORTATION INFORMATION

The transportation, storage, treatment and disposal of this waste material must be conducted in compliance with all applicable Federal, State and Local regulations.

Additional Environmental Regulatory Information: Silver, Total, is listed as a toxic pollutant (in water) pursuant to 40 CFR 122.21, Appendix D, Table III. Notification levels are described in 40 CFR 122.42 (a) (1) and 122.42 (a) (2). Due to the low solubility of silver and its low silver content, this product is unlikely to exceed notification levels. There may be specific regulations at the local, regional or state level that pertain to this material.

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs of symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure to the diluted product under conditions of ordinary use.

Summit Industries Inc. warrants that the product of products described herein will conform to its published specifications. The product supplied by Summit Industries Inc. and information related to them, is intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of the Summit Industries Inc. materials for their own particular purpose. Since buyer's conditions of use of product are beyond Summit Industries Inc.'s control, Summit Industries Inc. does not warrant any recommendations and information of the use of such products. Summit Industries Inc. disclaims all other warrants including the implied warrant of merchantability and fitness for any particular purpose in connections with the use of its products.