



Hummel Croton Inc.
10 Harmich Rd.
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Phone: 908-754-1800
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In Case Of Emergency Call Chemtrec®
(U.S.) (800) 424-9300
(International) (703) 527-3887

Silver Nitrate Safety Data Sheet

1. Product and Company

Product name: Silver Nitrate
Synonym: Lunar Caustic
CAS-No.: 7761-88-8
Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080
Telephone: 908-754-1800
Fax: 908-754-1815

HMIS Rating	
Health	3
Flammability	0
Reactivity	2
Personal Protection	J

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300
Chemtrec International: 703-527-3887

2. Hazards

GHS Label elements

GHS Classification: Oxidizing solids (Category 2), H272
Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1B), H314
Serious eye damage (Category 1), H318
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

Pictogram(s)



Signal word **DANGER**

Hazard statement(s)

- H272 May intensify fire; oxidizer.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat.
- P220 Keep/Store away from clothing/ combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- P391 Collect spillage.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/Ingredients

Substance
Formula: AgNO₃
CAS-No.: 7761-88-8

Material	CAS	%	OSHA	ACGIH
Silver Nitrate	7761-88-8	100%	10 µg/m ³	10 µg/m ³

4. First Aid

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

5. Fire Data

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water ONLY! Silver nitrate is incompatible with certain materials found in carbon dioxide, dry chemical and Halon extinguishers.

Fire Fighting Procedure: Evacuate enclosed and surrounding areas. If smoke and fumes cannot be avoided, use self-contained breathing apparatus.

Fire/Explosion Hazards: This material is an oxidizer. It will increase the fire potential of combustible and flammable materials. This material may react and burn with organic material.

AVOID CONTAMINATION WITH CHLORATES AND/OR PERCHLORATES.

6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Crystals
Color: White
Odor: Odorless
Molecular Weight: 169.87 g/mol
Boiling Point: Decomposes 444°C
Melting/Freezing Point: 212°C
Solubility In Water: 2.5 g/mL
Specific Gravity: 4.352

10. Stability And Reactivity

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibilities: Acetylene, acetylides, alkalis, aluminum, antimony salts, arsenic arsenites, bromides, carbon, carbonates, chlorides, ClF₃, chlorosulfuric acid, copper, creosote, ethanol, ferrous salts, hypophosphites, iodides, magnesium powder, morphine salts, NH₃ with KOH to yield black Ag₃N, oils, PH₃, phosphates, phosphonium iodide, phosphorous, plastics, sulfur, tannic acid, tartarates, thiocyanates, and zinc.
Instable Conditions: Excessive temperatures (see Incompatibilities).
Decomposition Temperature: Decomposes 444°C
Decomposition products: Oxides of silver and nitrogen.

11. Toxicological Information

RTECS Number: VW 4725000
Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.
Toxicity Data: ORAL LD50: 50 mg/Kg (orl-mus)
Chronic Toxic Effects: Overexposure to silver may cause argyria.
Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.
Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

12. Ecological Information

Ecotoxicity: Not available at this time.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Silver Nitrate
UN Number: 1493
Class: 5.1

P.G.: II
Label Code: 5.1
Reportable Quantity: RQ 1(.454)
Other Information: Marine Pollutant

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: Yes

16. Other Information

Prepared By: Michael Richard

Date: June 1, 2015

Reason For Issue: GHS Compliance

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