

Chem Alert Report

Product Name **AMMONICAL SILVER SOLUTION FRONINE LAB SUPPLIES.**

Ingredient	Conc.	CAS No.
WATER	>60%	7732-18-5
SILVER NITRATE	<10%	7761-88-8

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

Synonyms	AMMONICAL SILVER SOLUTION FRONINE LAB SUPPLIES, RDEH 06038310 - MANUFACTURER'S CODE, SILVER NITRATE 0.0282N SOLN , SILVER NITRATE 0.100M SOLN, SILVER NITRATE SOLN 0.1M (0.1N) FIXANA		
Appearance	CLEAR COLOURLESS LIQUID		
Odour	SLIGHT ODOUR		
Use(s)	LABORATORY REAGENT, LABORATORY APPLICATIONS.		
Supplier	FRONINE LABORATORY SUPPLIES Ph: 02 9627 3600 Emerg. Ph: 13 11 26		
Stock No.	530.		
Poison Sched	6	Hazchem None Allocated	UN No. None Allocated
Pkg Group	None Allocated	EPG None Allocated	D.G Class None Allocated Sub/Tert Risk None Allocated

HEALTH HAZARDS

Health Hazard Summary	Irritant. Use safe work practices to avoid eye or skin contact and vapour generation. The absorption of silver nitrate into the circulation may result in a generalised greyish pigment of the skin (argyria) with chronic exposure. However, due to the low amount of silver nitrate in this product, the potential for adverse health effects is reduced.
Eye	Irritant. Exposure may result in lacrimation, irritation, pain, redness, conjunctivitis and possible corneal burns with prolonged contact.
Inhalation	Irritant. Over exposure may result in mucous membrane irritation of nose and throat, coughing, bronchitis. Prolonged exposure may cause argyrosis of the respiratory tract (depositing of silver in the mucous membrane of the nose and throat).
Skin	Irritant. Contact may cause irritation, ulceration and burns, resulting in localised black discolouration of the skin.
Ingestion	Low to moderate toxicity. Ingestion may result in burning and blackening of mouth, salivation, gastro-enteritis, nausea, vomiting, abdominal pain and diarrhoea. Large doses; anuria, collapse, kidney/ liver damage, convulsions, coma and death.

PRECAUTIONS

Flammability	Non flammable - strong oxidising agent capable of increasing flammability of combustible, organic or other readily oxidisable materials.
Reactivity	Oxidising agent. Incompatible with combustible material (eg paper), reducing agents (eg amines), acids (eg hydrochloric acid), alkalis (sodium hydroxide), oxidising agents (eg peroxides), powdered metals (eg magnesium) an
Ventilation	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended.

PERSONAL PROTECTIVE EQUIPMENT

PPE Wear splash-proof goggles and PVC or rubber gloves. In a laboratory situation, wear a laboratory coat.



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FIRST AID

- Eye** Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.
- Inhalation** If exposure occurs leave exposure area immediately. If irritation persists, seek medical attention.
- Skin** Remove contaminated clothing and gently flush affected areas with water. Seek immediate medical attention. Launder clothing before reuse.
- Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.

SAFE HANDLING

- Storage** Store in cool, dry, well ventilated area, removed from combustible material (eg paper), reducing agents (eg amines), acids (eg hydrochloric acid), alkalis (sodium hydroxide), oxidising agents (eg peroxides), powdered metals (eg magnesium), foodstuffs, heat and ignition sources. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Check for leaks or spills.
- Waste Disposal** For small amounts, precipitate with salt (sodium chloride; NaCl) or carbonates and reuse. For larger amounts, contact the manufacturer for additional information.
- Transport** Not regulated for transport purposes.

EMERGENCY

- Spillage** If spilt/ containers damaged (bulk), wear splash-proof goggles, PVC/rubber gloves and coveralls. Collect and place in sealable containers for disposal. Prevent contamination of drains or waterways.
- Environment** If silver nitrate is released to water, the silver will precipitate out with natural chlorides. The nitrate can persist indefinitely, and is a nutrient with potential to disturb ecological balance (algal blooms etc). Toxic to sewage organisms at 0.3ppm. Silver may bioaccumulate in aquatic plants and animals and is toxic to fish above 0.01 ppm.
- Fire and Explosion** Non flammable - aids combustion - oxidising agent. Evacuate area and contact emergency services. Toxic gases may be evolved when heated. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
- Extinguishing** Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.

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PHYSICAL AND CHEMICAL PROPERTIES

Flammability: NON FLAMMABLE	Flash Point: NOT RELEVANT
Boiling Point: > 100 C	Melting Point: < 0 C
Exposure Standard: 0.01 mg/m3 Silver soluble compounds	Evaporation Rate: AS FOR WATER
pH: NOT AVAILABLE	% Volatiles: > 60 % Water
Specific Gravity: 1 (Approximately)	Solubility (water): SOLUBLE
Vapour Pressure: 18 mm Hg @ 20 C	Upper Explosion Limit: NOT RELEVANT
Lower Explosion Limit: NOT RELEVANT	