

Safety Data Sheet

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product name CHLORIDE TEST SOLUTION

Other means of identification

Product Code(s) 5111 UN-No 3082

Recommended use of the chemical and restrictions on use

Recommended Use Use as a laboratory reagent. Laboratory chemicals. Industrial (not for food or food contact

use).

Details of the supplier of the safety data sheet

Manufacturer Address LaMotte Company, Inc. 802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620 USA

T 410-778-3100 F 410-778-9748

Emergency telephone number

24 Hour Emergency Number (CHEM-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call collect) 813-248-0585

2. HAZARDS IDENTIFICATION

Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1B

EMERGENCY OVERVIEW

DANGER POISON

Hazard statements

Causes severe skin burns and eye damage. May cause cancer.



Appearance Clear, colorless

Physical state liquid

Odor None

Precautionary Statements - Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not taste or swallow. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling.

Precautionary Statements - Response

Immediately call a POISON CENTER or physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED, Rinse mouth, Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Other Hazards

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Silver nitrate	7761-88-8	5

4. FIRST AID MEASURES

First Aid Measures

General advice Do not get in eyes, on skin, or on clothing.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a physician immediately.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Take off

contaminated clothing and wash before reuse. Call a physician immediately.

Inhalation Remove to fresh air. If symptoms persist, call a physician.

Induce vomiting, but only if victim is fully conscious. Drink plenty of water. Call a physician

immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Use personal protection

recommended in Section 8.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, CO₂, alcohol-resistant foam or water spray.

Specific hazards arising from the chemical

Silver nitrate reactions may cause explosions.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Revision Date Jun-23-2015

Ensure adequate ventilation. Wear protective gloves/clothing and eve/face protection. See Personal precautions

section 8. Avoid contact with skin, eyes, and inhalation of vapors. Silver nitrate leaves dark

discolorations on skin and clothing that is difficult to remove and can be permanent.

See Section 12 for additional Ecological Information. **Environmental precautions**

Methods and material for containment and cleaning up

Methods for containment Do not flush to sewer. Contain and collect spillage with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for

disposal according to local / national regulations (see Section 13).

Methods for cleaning up Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Prevent contact with

skin, eyes, and clothing. Do not taste or swallow. Do not eat, drink, or smoke when using

this product.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from Storage

direct sunlight. Keep away from heat, moisture, and incompatibles. Store at room

temperature.

Incompatible Products Strong reducing agents. Strong bases. Ammonia.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silver nitrate	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³	IDLH: 10 mg/m ³
7761-88-8			TWA: 0.01 mg/m ³

NIOSH IDLH: Immediately Dangerous to Life or Health

Appropriate engineering controls

Ensure that eyewash stations and safety showers are close to the workstation location. **Engineering Measures**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). **Eye/Face Protection**

Skin and body protection Wear protective gloves/clothing. Nitrile rubber. Gloves & Lab Coat.

Respiratory protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling

the product. Take off contaminated clothing and wash before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

No information available

5111 CHLORIDE TEST SOLUTION

Physical state liquid

pН

Appearance Clear, colorless Odor None

Property Values Remarks • Method

Melting point / freezing point
Boiling point / boiling range
Flash point
No information available
No information available
No information available

Evaporation rate

Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening pointNo information availableMolecular weightNo information availableVOC Content (%)No information available

Density ~1.000g/cm³

Bulk density No information available

10. STABILITY AND REACTIVITY

Stability Light sensitive. Stable under recommended storage conditions.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Direct sunlight. Excessive heat. Incompatible products. Incompatible materials Strong reducing agents. Strong bases. Ammonia. Hazardous decomposition products Nitrogen oxides (NOx). Silver/Silver Oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silver nitrate	= 1173 mg/kg (Rat)	Not Established	Not Established
7761-88-8			

nformation on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Silver nitrate	Not Established	Group 2A	Not Established	X
7761-88-8				

Chronic toxicityRepeated inhalation or ingestion of silver compounds may cause Argyria characterized by permanent bluish discoloration of the skin, eyes, mucous membrane, and internal organs.

ATEmix (oral) 23460

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 95 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Silver nitrate	Not Established	0.001339 - 0.001637: 96 h	0.0008 - 0.001: 48 h Daphnia
7761-88-8		Oncorhynchus mykiss mg/L LC50	magna mg/L EC50 Flow through
		flow-through 0.00181 - 0.00214:	0.0008 - 0.0011: 48 h Daphnia
		96 h Pimephales promelas mg/L	magna mg/L EC50 Static 0.0006:
		LC50 static 0.00452 - 0.00638:	48 h Daphnia magna mg/L EC50
		96 h Pimephales promelas mg/L	
		LC50 flow-through 0.00512 -	
		0.00787: 96 h Poecilia reticulata	
		mg/L LC50 semi-static 0.0064 -	
		0.0106: 96 h Pimephales	
		promelas mg/L LC50 semi-static	
		0.00839 - 0.1802: 96 h	
		Oncorhynchus mykiss mg/L LC50	
		static 0.009 - 0.02: 96 h Lepomis	
		macrochirus mg/L LC50	
		flow-through 0.0242 - 0.0484: 96	
		h Lepomis macrochirus mg/L	
		LC50 semi-static 0.05 - 0.07: 96 h	
		Lepomis macrochirus mg/L LC50	
		static 0.0027: 96 h Cyprinus	
		carpio mg/L LC50 semi-static	
		0.0075: 96 h Oncorhynchus	
		mykiss mg/L LC50 semi-static	
		0.009: 96 h Pimephales promelas	
		mg/L LC50	

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Silver nitrate 7761-88-8	Not Established

13. DISPOSAL CONSIDERATIONS

Disposal MethodsThis material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261). Dispose of contents/containers in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

Silver nitrate (hazardous constituent - no - Not Established Not Established	Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
7701 00 0 Waste Hallibot)	Silver nitrate 7761-88-8	(hazardous constituent - no waste number)	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Silver nitrate 7761-88-8	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Silver nitrate	-
7761-88-8	

14. TRANSPORT INFORMATION

DOT

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN-No 3082 Hazard Class 9 Packing group III

IATA

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN-No 30 Hazard Class 9 Packing group III

IMDG/IMO

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN-No 3082 Hazard Class 9 Packing group III

15. REGULATORY INFORMATION

International Inventories

Complies **TSCA DSL/NDSL** Complies **EINECS/ELINCS** Complies Complies **ENCS IECSC** Complies **KECL** Complies **PICCS** Complies Complies **AICS**

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Silver nitrate	1.0
7761-88-8	

SARA 311/312 Hazard Categories

Acute health hazard

Chronic Health Hazard

Fire hazard

Sudden release of pressure hazard

Reactive Hazard

Yes

No

No

Reactive Hazard

Yes

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Silver nitrate 7761-88-8	1 lb	X	Not Established	Х

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Silver nitrate	1 lb	Not Established	RQ 1 lb final RQ
7761-88-8			RQ 0.454 kg final RQ

US State Regulations

California Proposition 65

Chemical name	California Proposition 65	
Silver nitrate	Not Established	
7761-88-8		

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silver nitrate	X	X	X
7761-88-8			

CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances	
Silver nitrate 7761-88-8	Add POISON to label, 16 CFR 1500.129 (>=5%)	
16 OTHER INCORMATION		

16. OTHER INFORMATION

NFPA Health hazard 2 Flammability 0 Instability 0 Physical and Chemical Hazards N/A

Health hazard 2 Flammability 1 Stability 1



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Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Material Safety Data Sheet