

Material Safety Data Sheet

Issuing Date 7/20/2011 Revision Number 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CHLORIDE REAGENT B

Product Code(s) 4070

Recommended UseLaboratory chemicals. Industrial (not for food or food contact use). Test kit reagent.

Company LaMotte Company, Inc.

802 Washington Avenue

P.O. Box 329

Chestertown, MD 21620

USA

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

Emergency Overview

Causes mild skin irritation
May stain skin
Toxic to aquatic organisms

Appearance Clear, colorless Physical State Liquid Odor None

Potential Health Effects

Principle Routes of Exposure Skin contact, Ingestion.

Acute Toxicity

Eves May cause irritation.

Skin May be harmful in contact with skin. May cause irritation. May stain skin.

Inhalation May cause irritation of respiratory tract.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Effects

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula AgNO₃ in water

Chemical Name	CAS-No	Weight %	
Silver nitrate	7761-88-8	0.24	
Water	7732-18-5	to 100%	

4. FIRST AID MEASURES

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

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Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

If irritation persists or develops, contact a physician.

Skin ContactWash off immediately with soap and plenty of water for at least 15 minutes while removing

all contaminated clothing and shoes. If irritation develops or persists, consult physician.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration and contact emergency personnel.

Induce vomiting, but only if victim is fully conscious. Drink 1 or 2 glasses of water. Consult

a physician.

mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper

respiratory medical device.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not a fire hazard. Flash Point Not applicable

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

Explosion Data

NFPA Health Hazard 1 Flammability 0 Stability 0 Physical and Chemical

Hazards -

HMIS Health Hazard 1 Flammability 0 Stability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Refer to Section 8. Use personal protective equipment. 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.

Methods for Containment Soak up with inert absorbent material, containerize, and hold for disposal. Do not flush to

sewer.

Methods for Cleaning Up Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE

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

with skin, eyes, and clothing. Do not ingest. Do not eat, drink, or smoke when using this

product.

Storage Keep containers tightly closed in a dry, cool, and well-ventilated place. Store at room

temperature. Keep away from direct sunlight.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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
Water	None Known	None Known	None Known
7732-18-5			

NIOSH IDLH: Immediately Dangerous to Life or Health

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

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Sa **Skin and Body Protection** We

Safety glasses with side-shields. Wear protective gloves/clothing. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

AppearanceClear, colorlessOdorNonePhysical StateLiquidpH5

Flash Point Not applicable Boiling Point/Range No information available

Vapor Pressure No information available Vapor Density No information available

Density ~1.000g/cm³

10. STABILITY AND REACTIVITY

Stability Stable under normal conditions of use and storage. Light sensitive.

Incompatible Products Strong reducing agents. Strong bases. Ammonia.

Conditions to Avoid Direct sunlight. Excessive heat. Incompatible products.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors. Nitrogen oxides

(NOx).

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Silver nitrate	1173 mg/kg (Rat)	None Known	None Known	
Water	3.3 (3.7)		None Known	

Chronic Toxicity

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.

Chemical Name	ACGIH	IARC	NTP	OSHA
Silver nitrate	None Known	None Known	None Known	None Known
Water	None Known	None Known	None Known	None Known

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Chemical Name EU - Endocrine Disrupters Candidate List		EU - Endocrine Disruptors - Evaluated Substances	Japan - Endocrine Disruptor Information	
Silver nitrate	None Known	None Known	None Known	
Water	None Known	None Known	None Known	

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water
Silver nitrate	None Known	LC50= 0.0056 mg/L Pimephales promelas 96 h LC50= 0.006 mg/L Oncorhynchus mykiss 96 h LC50= 0.0064 mg/L Pimephales promelas 96 h LC50= 0.00644 mg/L Poecilia reticulata 96 h LC50= 0.007 mg/L Lepomis macrochirus 96 h LC50= 0.0085 mg/L Poecilia reticulata 96 h		Flea) EC50 = 0.0006 mg/L 48 h EC50 = 0.9 μg/L 48 h LC50 = 5 μg/L 96 h
		LC50= 0.0094 mg/L Pimephales promelas 96 h		
Water	None Known	None Known	None Known	None Known

Chemical Name	Log Pow
Silver nitrate	None Known
Water	None Known

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of contents/container in accordance with local regulation.

Chemical Name	Chemical Name RCRA - Halogenated Organic Compounds		RCRA - F Series Wastes	RCRA - K Series Wastes	
Silver nitrate - 7761-88-8	None Known	None Known	None Known	None Known	
Water - 7732-18-5	None Known	None Known	None Known	None Known	

14. TRANSPORT INFORMATION

DOT Not regulated

<u>IATA</u> Not regulated

UN-No 3082

IMDG/IMO Not regulated

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15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	EINECS/ELIN CS	ENCS	IECSC	KECL	PICCS	AICS
Silver nitrate 7761-88-8 (0.24)	Present	Х	Х	1-8	Х	KE-31281	Х	Х
Water 7732-18-5 (to 100%)	Present	Х	Х	ENCS	Х	KE-35400	Х	Х

U.S. 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	CAS-No	Weight %	SARA 313 - Threshold Values %
Silver nitrate	7761-88-8	0.24	1.0
Water	7732-18-5	to 100%	None Known

SARA 311/312 Hazard Categories

Acute Health HazardYesChronic Health HazardYesFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

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).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Silver nitrate 7761-88-8 (0.24)	1 lb	X	None Known	X
Water 7732-18-5 (to 100%)	None Known	None Known	None Known	None Known

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Silver nitrate	7761-88-8	0.24	None Known	None Known	None Known	None Known
Water	7732-18-5	to 100%	None Known	None Known	None Known	None Known

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Silver nitrate	1 lb	None Known
Water	None Known	None Known

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

Chemical Name	CAS-No	California Prop. 65
Silver nitrate	7761-88-8	None Known
Water	7732-18-5	None Known

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silver nitrate	X	X	X	None Known	X
Water	None Known	None Known	None Known	None Known	None Known

International Regulations

Mexico - Grade

Chemical Name	Carcinogen Status	Exposure Limits
Silver nitrate	None Known	Mexico: TWA= 0.01 mg/m ³
Water	None Known	None Known

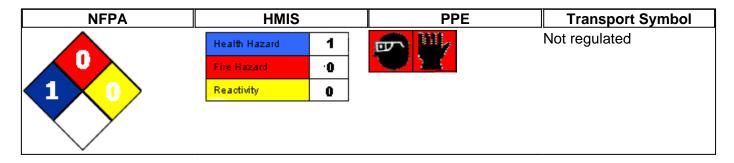
Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Component	WHMIS Hazard Class
Silver nitrate	1 %
7761-88-8 (0.24)	C E
Water	Uncontrolled product according to WHMIS classification criteria
7732-18-5 (to 100%)	

Chemical Name	NPRI
Silver nitrate	X

16. OTHER INFORMATION



Prepared By Regulatory Affairs Department

Issuing Date 7/20/2011

Revision Date 21-Jul-2011

Revision Note Initial Release

Disclaimer

The information provided on this MSDS 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.

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End of MSDS

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