

# **Safety Data Sheet**

Revision Number 0

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

Revision Date Dec-08-2014

Product	identifier
Product	name

Chloride Reagent A

Other means of identification	
Product Code(s)	4069
Recommended use of the chemic	al 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 safe	ty 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 (CHEI	I-TEL):USA, Canada, Puerto Rico 1-800-255-3924 Outside North American Continent (Call

### 2. HAZARDS IDENTIFICATION

Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A

#### EMERGENCY OVERVIEW

DANGER

#### Hazard statements

collect) 813-248-0585

May cause an allergic skin reaction. May cause genetic defects. May cause cancer.



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. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention.

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

If skin irritation or rash occurs: Get medical advice/attention

Wash contaminated clothing before reuse

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

IF SWALLOWED, Drink 1 or 2 glasses of water, Call a physician immediately

#### Precautionary Statements - Storage

Store locked up.

#### **Precautionary Statements - Disposal**

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

#### Other Hazards

Causes mild skin irritation Very toxic to aquatic life with long lasting effects Very toxic to aquatic life

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Silver nitrate	7761-88-8	<0.01
Potassium chromate	7789-00-6	5
Water	7732-18-5	to 100%

#### **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. If irritation persists or develops, contact a physician.
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and contact emergency personnel. Call a physician immediately.
Ingestion	Do not induce vomiting without medical advice. Rinse mouth with water and afterwards drink plenty of water or milk. Never give anything by mouth to an unconscious person. Consult a physician.
Self-protection of the first aider	Use personal protective equipment. See section 8 for more information. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give 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**

#### Suitable extinguishing media

Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

#### 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			
Personal precautions	Ensure adequate ventilation. Use personal protective equipment. See section 8. Avoid contact with skin, eyes, and inhalation of vapors.		
Environmental precautions	See Section 12 for additional Ecological Information.		
Methods and material for containm	ent and cleaning up		
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			
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			
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room temperature. Keep away from direct sunlight. Keep out of the reach of children.		
Incompatible Products	Strong reducing agents. Hydrazine.		
8. EXPOSURE CONTROLS/PERSONAL PROTECTION			

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silver nitrate	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
7761-88-8			TWA: 0.01 mg/m <sup>3</sup>
Potassium chromate	TWA: 0.05 mg/m <sup>3</sup>	TWA: 5 μg/m³	IDLH: 15 mg/m <sup>3</sup>
7789-00-6		Ceiling: 0.1 mg/m <sup>3</sup>	TWA: 0.0002 mg/m <sup>3</sup>
Water	-	-	Not Established
7732-18-5			

## Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems.
Individual protection measures, suc	ch as personal protective equipment
Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	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. Take off contaminated clothing and wash before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance	liquid Clear yellow liquid	Odor	None
Property_	<u>Values</u>	Remarks • Method	
рН	9		
Melting point / freezing point	No information available		
Boiling point / boiling range	ca. 101 °C No information available		
Flash point	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 point	No information available		
Molecular weight	No information available		
VOC Content (%)	No information available		
Density	No information available		
Bulk density	No information available		
	10. STABILITY AND REA	CTIVITY	

Stability	Stable under normal conditions of use and storage.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid Incompatible materials	Excessive heat. Incompatible products. Direct sunlight. Strong reducing agents. Hydrazine.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Hazardous decomposition products

#### **Component Information** Oral LD50 Inhalation LC50 Chemical name Dermal LD50 Silver nitrate = 1173 mg/kg (Rat) Not Established Not Established 7761-88-8 Potassium chromate Not Established Not Established Not Established 7789-00-6 Water > 90 mL/kg (Rat) Not Established Not Established 7732-18-5

#### Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA

Silver nitrate 7761-88-8	Not Established	Group 2A	Not Established	Х
Potassium chromate 7789-00-6	A1	Group 1	Known	Х
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

Potassium chromate 180mg/kg (Mouse)

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Unknown Aquatic Toxicity 0 % of the mixture consists of cor	nponents(s) of unknown hazards to the aquatic environment
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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:	
			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	
Potassium chromate 7789-00-6	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established

#### Persistence and degradability

No information available.

#### **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Silver nitrate 7761-88-8	Not Established
Potassium chromate 7789-00-6	Not Established
Water 7732-18-5	Not Established

# 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

Dispose of contents/containers in accordance with local regulations.

#### **Contaminated packaging**

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Silver nitrate	(hazardous constituent - no	-	Not Established	Not Established

7761-88-8	waste number)			
Potassium chromate 7789-00-6	(hazardous constituent - no waste number)	-	Not Established	Not Established
Water 7732-18-5	Not Established	-	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
Potassium chromate 7789-00-6	Not Established	Not Established	Not Established	Not Established
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Silver nitrate 7761-88-8	-
Potassium chromate 7789-00-6	-
Water 7732-18-5	-

### 14. TRANSPORT INFORMATION

DOT

Not regulated

IATA

Not regulated Not regulated

IMDG/IMO

15. REGULATORY INFORMATION

	-
International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

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	
Potassium chromate	0.1
7789-00-6	
Water	Not Established
7732-18-5	
SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

<u>CWA (Clean Water Act)</u> 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
Potassium chromate 7789-00-6	10 lb	X	Not Established	х
Water 7732-18-5	Not Established	Not Established	Not Established	Not Established

#### <u>CERCLA</u>

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	RQ
Silver nitrate 7761-88-8	1 lb	Not Established	RQ 1 lb final RQ RQ 0.454 kg final RQ
Potassium chromate 7789-00-6	10 lb	Not Established	RQ 10 lb final RQ RQ 4.54 kg final RQ
Water 7732-18-5	-	Not Established	-

#### US State Regulations

#### California Proposition 65

WARNING! This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm

Chemical name	California Proposition 65
Silver nitrate 7761-88-8	Not Established
Potassium chromate 7789-00-6	Carcinogen Developmental Female Reproductive Male Reproductive
Water 7732-18-5	Not Established

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Silver nitrate 7761-88-8	Х	Х	Х
Potassium chromate 7789-00-6	Х	Х	Х
Water 7732-18-5	Not Established	Not Established	Х

#### CPSC (Consumer Product Safety Commission) - Specially Regulated Substances

Chemical name		CPSC	CPSC (Consumer Product Safety Commission) - Specially Regulated Substances				
Silver nitrate 7761-88-8			Add POISON to label, 16 CFR 1500.129 (>=5%)				
16. OTHER INFORMATION							
NFPA_	Health hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards N/A			
$\sim$							
Health Hazard	2						
Fire Hazard	0						
Reactivity	0						
Prepared by		ry Affairs Department					
ssuing Date Revision Date	Dec-05-2 Jul-23-20						
Reason for revision	Initial Re	-					
Disclaimer	initial ive						
	lad on this CDC is some	ant to the heat of our lu	audadaa information a	nd belief at the date of its			

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End of Material Safety Data Sheet