

# **Safety Data Sheet**

**Revision Number** 0

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

**Product identifier** 

Product name Chlor\*Rid Chloride Reagent One-Step Method

Other means of identification

Product Code(s) 6754 UN-No 3082

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory chemicals. Use as a laboratory reagent. 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
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1B

#### **EMERGENCY OVERVIEW**

#### DANGER

#### Hazard statements

Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause cancer.



Appearance Clear, colorless

Physical state liquid

**Odor** No information available

#### **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. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Keep out of the reach of children.

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

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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-%
Potassium persulfate	7727-21-1	1
Silver nitrate	7761-88-8	1

### 4. FIRST AID MEASURES

#### **First Aid Measures**

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

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

Call a physician immediately.

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

all contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician. Excess acid on skin can be neutralized with a

2% solution of sodium bicarbonate in water.

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

respiration and contact emergency personnel.

**Ingestion** Do NOT induce vomiting. Drink 1 or 2 glasses of water. Call a physician or poison control

center immediately. Clean mouth with water and drink afterwards plenty of water.

<u>Self-protection of the first aider</u> For personal protection see Section 8. Ensure that medical personnel are aware of the

material(s) involved, take precautions to protect themselves and prevent spread of

contamination.

# 5. FIRE-FIGHTING MEASURES

# Suitable extinguishing media

CO<sub>2</sub>, dry chemical, dry sand, alcohol-resistant foam.

#### 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

Issuing Date Nov-05-2015

### Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid

contact with skin, eyes or clothing. Avoid breathing vapors or mists. Silver nitrate leaves dark discolorations on skin and clothing that is difficult to remove and can be permanent.

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

#### 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). Absorb/Cover spill with sodium bicarbonate or sodium carbonate to neutralize, then place in a chemical waste

container for later disposal.

Methods for cleaning up Clean contaminated surface thoroughly. Neutralize spill with alkaline material (sodium

bicarbonate), being careful to prevent splattering, then containerize slurry and hold for later

disposal.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Do not taste or

swallow. Avoid contact with skin, eyes or clothing. 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. Keep away from

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
Potassium persulfate 7727-21-1	TWA: 0.1 mg/m <sup>3</sup>	•	Not Established
Silver nitrate 7761-88-8	TWA: 0.01 mg/m <sup>3</sup>	TWA: 0.01 mg/m <sup>3</sup>	IDLH: 10 mg/m³ TWA: 0.01 mg/m³

#### **Appropriate engineering controls**

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

Ensure adequate ventilation, especially in confined areas.

### Individual protection measures, such as personal protective equipment

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

Skin and body protection Gloves & Lab Coat. Impervious clothing. Protective gloves. Nitrile rubber.

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

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#### Information on basic physical and chemical properties

Physical state liquid

Appearance Clear, colorless Odor No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 1.5 No information available

Melting point / freezing pointNo information availableBoiling point / boiling rangeNo information availableFlash pointNo 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 No information available Vapor pressure 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 No information available Autoignition temperature No information available **Decomposition temperature** Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive properties** No information available **Oxidizing properties** No information available

Other Information

Softening point
Molecular weight
VOC Content (%)
Density
No information available

#### 10. STABILITY AND REACTIVITY

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

**Hazardous polymerization** Hazardous polymerization does not occur.

Conditions to avoid Protect from light. Incompatible Products. Excessive heat. Exposure to air or moisture over

prolonged periods.

**Incompatible materials** Strong reducing agents. Strong bases. Ammonia.

Hazardous decomposition products Nitrogen oxides (NOx). Silver/Silver Oxides. Sulfur oxides (SOx).

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Potassium persulfate 7727-21-1	= 802 mg/kg(Rat)	> 10000 mg/kg (Rabbit)	Not Established
Silver nitrate 7761-88-8	= 1173 mg/kg (Rat)	Not Established	Not Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

Silver nitrate	Not Established	Group 2A	Not Established	X
7761-88-8		·		

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 0.7 % 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)
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established
7727-21-1 Silver nitrate 7761-88-8	Not Established	0.001339 - 0.001637: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.00181 - 0.00214: 96 h Pimephales promelas mg/L LC50 static 0.00452 - 0.00638: 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
Potassium persulfate 7727-21-1	Not Established
Silver nitrate 7761-88-8	Not Established

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** 

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Dispose of contents/containers in accordance with local regulations. Should not be released into the environment.

# Contaminated packaging

Do not reuse empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium persulfate 7727-21-1	Not Established	-	Not Established	Not Established
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
Potassium persulfate	Not Established	Not Established	Not Established	Not Established

7727-21-1				
Silver nitrate	Not Established	Not Established	Not Established	Not Established
7761-88-8				

Chemical name	California Hazardous Waste Status
Potassium persulfate 7727-21-1	-
Silver nitrate 7761-88-8	-

### 14. TRANSPORT INFORMATION

DOT

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)

UN-No 3082 **Hazard Class** 9 Ш **Packing group** 

IATA

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)

UN-No 3082 **Hazard Class** 9 **Packing group** Ш

IMDG/IMO

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)

UN-No 3082 **Hazard Class** 9 **Packing group** Ш

### 15. REGULATORY INFORMATION

**International Inventories** 

**TSCA** Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL** Complies **PICCS 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 %	
Potassium persulfate 7727-21-1	Not Established	
Silver nitrate 7761-88-8	1.0	

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
Fire hazard No
Sudden release of pressure hazard 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
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established
Silver nitrate 7761-88-8	1 lb	Х	Not Established	Х

#### **CERCLA**

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
Potassium persulfate 7727-21-1	-	Not Established	-
Silver nitrate 1 lb 7761-88-8		Not Established	RQ 1 lb final RQ RQ 0.454 kg final RQ

# **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals

This product does not contain any 1 reposition os chemicais		
Chemical name	California Proposition 65	
Potassium persulfate 7727-21-1	Not Established	
Silver nitrate 7761-88-8	Not Established	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Potassium persulfate 7727-21-1	X	X	X
Silver nitrate 7761-88-8	Х	Х	Х

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

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

NFPA_	Health hazard 2	Flammability 0	Instability 1	Physical and Chemical Hazards N/A
<u>HMIS</u>	Health hazard 2	Flammability 0	Stability 1	



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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 Safety Data Sheet**