

# **Safety Data Sheet**

OSHA format Revision Number 0

Issuing Date Jun-01-2015 Revision Date Jan-11-2016

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

**Product identifier** 

Product name Chloride Spectrophotometric Grade Tablet

Other means of identification

Product Code(s) 3885A

Recommended use of the chemical and restrictions on use

**Recommended Use**Use as a laboratory reagent. Industrial (not for food contact use). Laboratory

chemicals.

Details of the supplier of the safety data sheet

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
Respiratory sensitization	Category 1
Skin sensitization	Category 1

# **EMERGENCY OVERVIEW**

#### DANGER POISON

#### 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.



Appearance Light gray

Physical state solid Tablet ~0.1g (100mg)

Odor Odorless

#### **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.

#### **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

May be harmful if swallowed Very toxic to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Sodium bisulfate	7681-38-1	1-10
Silver nitrate	7761-88-8	6
Potassium persulfate	7727-21-1	7

LaMotte Company proprietary formulation under the State of New Jersey Trade Secret Protection Law, assigned the NJTSRN 80100291-5074p, and may be disclosed only in a medical emergency

#### 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.

Immediate medical attention is required.

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

all contaminated clothing and shoes. Consult a physician.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Drink plenty of water. Call a physician immediately. Do not induce vomiting without medical

advice. Never give anything by mouth to an unconscious person.

<u>Self-protection of the first aider</u> Use personal protection recommended in 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

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or 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

Personal precautions, protective equipment and emergency procedures

Personal precautions See section 8.

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

Methods and material for containment and cleaning up

**Methods for containment**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

Avoid dust formation. Sweep up and shovel into suitable containers for disposal. Keep in

suitable and closed containers for disposal. Clean contaminated surface thoroughly. After

cleaning, flush away traces with water.

## 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. Keep away from

heat. Keep away from heat, moisture, and incompatibles. Keep out of the reach of children.

Incompatible Products Alkalis.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium bisulfate 7681-38-1	-	-	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/m <sup>3</sup> TWA: 0.01 mg/m <sup>3</sup>
Potassium persulfate 7727-21-1	TWA: 0.1 mg/m <sup>3</sup>	-	Not Established

#### **Appropriate engineering controls**

Engineering Measures 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). Avoid contact with eyes.

**Skin and body protection** Wear latex or nitrile gloves.

**Respiratory protection** None required under normal usage.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

eyes, skin and clothing. Wear suitable gloves and eye/face protection. Wash hands and

face before breaks and immediately after handling the product.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state solid Tablet ~0.1g (100mg)

Appearance Light gray Odor Odorless

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

pH 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:
Lower flammability limit:
Vapor pressure
Vapor density
No information available

Water solubility Soluble in water Solubility in other solvents No information available **Partition coefficient** No information available Autoignition temperature No information available 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.

Hazardous Reactions Hazardous polymerization does not occur.

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

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat. Protect from light.

Keep away from children.

Incompatible materials Alkalis.

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

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Component Information** 

<u>component information</u>			
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium bisulfate 7681-38-1	= 2490 mg/kg(Rat)	Not Established	Not Established
Silver nitrate 7761-88-8	= 1173 mg/kg(Rat)	Not Established	Not Established
Potassium persulfate 7727-21-1	= 802 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	Not Established

Information on toxicological effects

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Chemical name	VCCIII	I IABC	I NTP	
Chemical name	I ACGIN	I IARC	I NIF	I USTA

Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established	Not Established
Silver nitrate 7761-88-8	Not Established	Not Established	Not Established	Not Established
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

Chronic toxicity May produce an allergic reaction.

ATEmix (oral) 3856

# 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Unknown Aquatic Toxicity 84 % 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)
Sodium bisulfate 7681-38-1	Not Established	Not Established	190: 48 h Daphnia magna mg/L EC50
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	
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established

#### Persistence and degradability

No information available.

# **Bioaccumulation/Accumulation**

No information available.

Chemical name	Log Pow
Sodium bisulfate 7681-38-1	Not Established
Silver nitrate 7761-88-8	Not Established
Potassium persulfate 7727-21-1	Not Established

# 13. DISPOSAL CONSIDERATIONS

Disposal Methods Dispose of waste product or used containers according to local regulations. Should not be

released into the environment.

**Contaminated packaging** Dispose of waste product or used containers according to local regulations.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium bisulfate 7681-38-1	Not Established	-	Not Established	Not Established
Silver nitrate 7761-88-8	(hazardous constituent - no waste number)	-	Not Established	Not Established
Potassium persulfate 7727-21-1	Not Established	-	Not Established	Not Established

Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established	Not Established
Silver nitrate 7761-88-8	Not Established	Not Established	Not Established	Not Established
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

Chemical name	California Hazardous Waste Status
Sodium bisulfate 7681-38-1	-
Silver nitrate 7761-88-8	-
Potassium persulfate 7727-21-1	-

# 14. TRANSPORT INFORMATION

DOT Not regulated

<u>ICAO</u> Not regulated

Not regulated IATA

IMDG/IMO Not regulated

RID Not regulated

# 15. REGULATORY INFORMATION

# International Inventories

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

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 %
Sodium bisulfate 7681-38-1	Not Established
Silver nitrate 7761-88-8	1.0
Potassium persulfate 7727-21-1	Not Established

## 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

#### **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
Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established	Not Established
Silver nitrate 7761-88-8	1 lb	X	Not Established	Х
Potassium persulfate 7727-21-1	Not Established	Not Established	Not Established	Not Established

# 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
Sodium bisulfate 7681-38-1	-	Not Established	-
Silver nitrate 7761-88-8	1 lb	Not Established	RQ 1 lb final RQ RQ 0.454 kg final RQ
Potassium persulfate 7727-21-1	-	Not Established	-

## **US State Regulations**

#### California Proposition 65

Chemical name	California Proposition 65	
Sodium bisulfate 7681-38-1	Not Established	
Silver nitrate 7761-88-8	Not Established	
Potassium persulfate 7727-21-1	Not Established	

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium bisulfate 7681-38-1	Not Established	Not Established	Not Established
Silver nitrate 7761-88-8	X	X	Х
Potassium persulfate 7727-21-1	X	Х	Х

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 INFORMATION			





Prepared by Regulatory Affairs Department

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**Revision note** Boric acid classification differs between the US and EU. It is not classified in the US but it is in the EU. Boric acid is listed on the "List of Substances of Very High Concern (SVHC)" according to Regulation (EC) No. 1907/2006 (REACH)

Repr. 1B; H360FD: C >5.5%

Reason for revision

(M)SDS sections updated 2 3 16 11

<u>Disclaimer</u>

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**