

Safety Data Sheet

Note: Read and understand Safety Data Sheet before handling or disposing of product.

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Material Identity: Chloride Reagent (1 milliliter liquid in vials with caps)
Synonym: UN No. 3082
Product Use: Laboratory/test kit reagent. Laboratory chemical. Industrial use only.
Manufacturer: **CHLOR RID International, Inc.**
3356 N. San Marcos Place #107
Chandler AZ 85225
Emergency Number: 800-422-3217, 480-821-0039 Revised: 06/2016

2. HAZARD IDENTIFICATION

Signal Word: WARNING

Hazard Statement:
See also Section 4.



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

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 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

Immediately call a POISON CENTER or doctor/physician
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower 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
Immediately 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

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

Read the entire SDS for more thorough evaluation of precautions required.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Potassium persulfate	7727-21-1	1
Silver nitrate	7761-88-8	1
Water	7732-18-5	to 100%

4. FIRST AID MEASURES

FIRST AID MEASURES

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult a physician.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If irritation develops or persists, consult physician.
Inhalation	Move to fresh air.
Ingestion	Do NOT induce vomiting. Drink 1 or 2 glasses of water. Call a physician immediately. Clean mouth with water and afterwards drink plenty of water.

5. FIRE-FIGHTING MEASURES/ EXPLOSIVE HAZARDS

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. CO₂, 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.

National Fire Protection Hazard Ratings- NFPA(R)

1 Health Hazard-
0 Flammability-
1 Reactivity -



6. ACCIDENTAL RELEASE MEASURE

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes, and clothing. Wear protective gloves/clothing and eye/face protection.

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment 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 Sweep up and shovel into suitable containers for disposal.

Procedure in case of accidental release, breakage or leakage: INFOTRAC 800-535-5053

Comply with local, state, and federal regulations for waste disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep tightly closed in a dry and cool place.

Incompatible Products Strong bases.

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 ³	-	None Established
Silver nitrate 7761- 88-8	TWA: 0.01 mg/m ³	TWA: 0.01 mg/m ³	IDLH: 10 mg/m ³ TWA: 0.01 mg/m ³
Water 7732-18-5	-	-	None Established

Engineering Controls: Showers, eye wash stations, ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.

Skin and body protection	Gloves & Lab Coat.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hygiene Measures	Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	None
Appearance	Clear, colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1.5	
Melting point/freezing point	No information available	
Boiling Point/Range	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 REACTIVITY:

Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing.
Hazardous polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.
Incompatible materials	Strong bases.
Hazardous decomposition products	Sulfur oxides (SO _x).

Do not use inconsistent with intended use. Keep out of reach of children and untrained users.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium persulfate 7727-21-1	= 802 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	None Established
Silver nitrate 7761-88-8	= 1173 mg/kg (Rat)	None Established	None Established
Water 7732-18-5	None Established	None Established	None Established

Information on toxicological effects

Chemical name	ACGIH	IARC	NTP	OSHA
Potassium persulfate 7727-21-1	-	None Established	None Established	-
Silver nitrate 7761-88-8	-	Group 2A	None Established	X
Water 7732-18-5	-	None Established	None Established	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

Unknown Aquatic Toxicity 0.7% of the mixture consists of component(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	None Established	None Established	None Established
Silver nitrate 7761-88-8	None 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	0.0008 - 0.001: 48 h Daphnia magna mg/L EC50 Flow through 0.0008 - 0.0011: 48 h Daphnia magna mg/L EC50 Static 0.0006: 48 h Daphnia magna mg/L EC50
Water 7732-18-5	None Established	None Established	None Established

Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical name	Log Pow
Potassium persulfate 7727-21-1	None Established
Silver nitrate 7761-88-8	None Established
Water 7732-18-5	None Established

13. DISPOSAL INFORMATION

Waste Disposal Method Should not be released into the environment. Dispose of in accordance with local regulations.

Contaminated packaging Do not re-use empty containers.

Chemical name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Potassium persulfate 7727-21-1	None Established	-	None Established	None Established
Silver nitrate 7761-88-8	(hazardous constituent - no waste number)	-	None Established	None Established
Water 7732-18-5	None Established	-	None Established	None Established
Chemical name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Potassium persulfate 7727-21-1	None Established	None Established	None Established	None Established
Silver nitrate 7761-88-8	None Established	None Established	None Established	None Established
Water 7732-18-5	None Established	None Established	None Established	None Established

Chemical name	California Hazardous Waste Status
Potassium persulfate 7727-21-1	-
Silver nitrate 7761-88-8	-
Water 7732-18-5	-

Comply with local, state and federal regulations. If permissible, flush to drain. Otherwise drain to effluent remediation facility. Neutralize with lime or soda ash, if required, then flush with water.

Caution: Misuse of empty containers can be hazardous. Empty containers can be hazardous is used to store, toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep containers closed and drum bungs in place.

14. TRANSPORT INFORMATION

DOT

UN-No 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)
Hazard Class 9
Packing group III

IATA

UN-No 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)
Hazard Class 9
Packing group III

IMDG/IMO

UN-No 3082
Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Silver Nitrate solution)
Hazard Class 9
Packing group III

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 Commercial Chemical Substances/EU 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

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	SARA 313 - Threshold Values %
Potassium persulfate 7727-21-1	None Established
Silver nitrate 7761-88-8	1.0
Water 7732-18-5	None 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

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	None Established	None Established	None Established	None Established
Silver nitrate 7761-88-8	1 lb	X	None Established	X
Water 7732-18-5	None Established	None Established	None Established	None 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
Potassium persulfate 7727-21-1	-	None Established	-
Silver nitrate 7761-88-8	1 lb	None Established	RQ 1 lb final RQ RQ 0.454 kg final RQ
Water 7732-18-5	-	None Established	-

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

Chemical name	California Prop. 65
Potassium persulfate 7727-21-1	None Established
Silver nitrate 7761-88-8	None Established
Water 7732-18-5	None 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	X	X	X
Water 7732-18-5	None Established	None Established	X

16. OTHER INFORMATION

HMIS

Health hazard 1

Flammability 0

Hazards N/A

It is the responsibility of the buyer to maintain a safe workplace for the user. Personal protective rating to be supplied by user depending on use condition. The user should consider the health safety information contained herein as a guide and should take these precautions required in an individual operation to instruct employees and develop protective work procedures for a safe environment.

The information contained herein is, to the best of our knowledge, accurate based on data available at the time of publication. The company accepts no liability for damages incurred.

Nothing herein is to be construed as a warranty, expressed or implied. It is the responsibility of the user to determine the applicability of the information herein and suitability for its own particular purpose.

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