



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • **White Soluble Muriate of Potash**

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Soluble fertilizer/Industrial chemical

Details of the supplier of the safety data sheet

Manufacturer • Cal-Chlor Corporation
627 Jefferson Street
Lafayette, LA 70501
United States
www.Cal-Chlor.com
mscelsa@cal-chlor.com

Telephone (General) • 1-800-245-6743

Emergency telephone number

Manufacturer • 800-424-9300

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Eye Irritation 2 - H319

Label elements

OSHA HCS 2012

WARNING



Hazard statements • Causes serious eye irritation - H319

Precautionary statements

Prevention • Wash thoroughly after handling. - P264
Wear eye/face protection, . . - P280

Response • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

If eye irritation persists: Get medical advice/attention. - P337+P313

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

Mixtures

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Potassium chloride	CAS:7447-40-7 EC Number:231-211-8	98.9% TO 99.8%	Ingestion/Oral-Rat LD50 • 2600 mg/kg	OSHA HCS 2012: Eye Irrit. 2	NDA
Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	0.2% TO 1%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	OSHA HCS 2012: Eye Irrit. 2	NDA

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Get medical attention if symptoms occur.

Skin

- Immediately flush skin with large amounts of water. Remove contaminated clothing. If irritation (redness, rash, blistering) develops, get medical attention.

Eye

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. If eye irritation persists: Get medical advice/attention.

Ingestion

- Give plenty of water to drink. Never give anything by mouth to an unconscious person. Vomiting may be induced. Get medical attention.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media ● In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media ● No data available.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards ● When subjected to extremely high temperatures, it may release small quantities of chlorine gas.

Hazardous Combustion Products ● No data available

Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions ● Ventilate enclosed areas. Do not walk through spilled material. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Emergency Procedures ● As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

- Prevent large spills from entering into soil, ditches, sewers, waterways and/or groundwater.

Methods and material for containment and cleaning up

Containment/Clean-up Measures ● Stop leak if you can do it without risk.
Small Spill: Sweep up and use as fertilizer if non-contaminated.
Large Spill: Collect with appropriate equipment. If on a hard surface, sweep up residue with brooms. If on soil, remove and collect the top 5cm of soil.

Section 7 - Handling and Storage

Precautions for safe handling

Handling ● Use only with adequate ventilation. Avoid generating dust by excessive or unnecessary movement. Use appropriate personal protective equipment. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage ● Store in a well-ventilated place. Keep container tightly closed. Protect from moisture. Avoid contact with aluminum or carbon steel to minimize corrosion.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines ● No applicable exposure limits available for product or components.

Exposure controls

Engineering ● Good general ventilation should be used. Ventilation rates should be matched to

Measures/Controls

conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal Protective Equipment**Respiratory**

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White, fine to 1 mm size, granules.
Color	White	Odor	No data available
Odor Threshold	No data available		
General Properties			
Boiling Point	1420 to 1500 C(2588 to 2732 F) (sublimes at 1500 C)	Melting Point	771 to 773 C(1419.8 to 1423.4 F)
Decomposition Temperature	No data available	pH	7
Specific Gravity/Relative Density	2 Water=1	Bulk Density	No data available
Water Solubility	347 g/L @ 20 C(68 F)	Viscosity	No data available
Explosive Properties	No data available	Oxidizing Properties:	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- None known.

Incompatible materials

- Contact with strong acid may produce hydrogen chlorine gas; contact with hot nitric acid may produce toxic nitrosyl chloride.

Hazardous decomposition products

- None

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Potassium chloride (98.9% TO 99.8%)	7447-40-7	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 2600 mg/kg; Ingestion/Oral-Woman TDLo • 60 mg/kg 1 Day(s); <i>Gastrointestinal:Nausea or vomiting; Blood:Change in clotting factors;</i></p> <p>Irritation: Eye-Rabbit • 500 mg 24 Hour(s) • Mild irritation;</p> <p>Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 983 g/kg 78 Week(s)-Continuous; <i>Kidney, Ureter, and Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis);</i> Ingestion/Oral-Rat TDLo • 1536 g/kg 130 Week(s)-Continuous; <i>Endocrine:Adrenal cortex hyperplasia;</i></p> <p>Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 1500 µg/kg</p>
Sodium chloride (0.2% TO 1%)	7647-14-5	<p>Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg;</p> <p>Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation;</p> <p>Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; <i>Vascular:BP elevation not characterized in autonomic section;</i></p> <p>Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous;</p> <p>Reproductive: Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); <i>Reproductive Effects:Maternal Effects:Postpartum; Reproductive Effects:Effects on Newborn:Biochemical and metabolic</i></p>

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • No data available
Aspiration Hazard	OSHA HCS 2012 • No data available
Carcinogenicity	OSHA HCS 2012 • No data available
Germ Cell Mutagenicity	OSHA HCS 2012 • No data available
Skin corrosion/Irritation	OSHA HCS 2012 • No data available
Skin sensitization	OSHA HCS 2012 • No data available
STOT-RE	OSHA HCS 2012 • No data available
STOT-SE	OSHA HCS 2012 • No data available
Toxicity for Reproduction	OSHA HCS 2012 • No data available
Respiratory sensitization	OSHA HCS 2012 • No data available
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Irritation 2

Potential Health Effects

Inhalation

- Acute (Immediate)** • Exposure to high dust concentrations may cause irritation of mucous membranes.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Mild irritation, especially in open wounds.
- Chronic (Delayed)** • No data available

Eye

- Acute (Immediate)**
 - Causes serious eye irritation.
- Chronic (Delayed)**
 - No data available.

Ingestion

- Acute (Immediate)**
 - A large body load may cause vomiting, diarrhea, cramps, tingling in hands and feet, weak pulse, and circulatory disturbances.
- Chronic (Delayed)**
 - No data available.

Key to abbreviations

LD = Lethal Dose

TD = Toxic Dose

Section 12 - Ecological Information**Toxicity**

White Soluble Muriate of Potash					
Dosage	Species	Duration	Results	Exposure Conditions	Comments
= 2010 mg/L	Fish: Blue Gill	96 Hour(s)	LC50	NDA	NDA
337 to 825 mg/L	Crustacea: Daphnia magna	48 Hour(s)	EC50	NDA	NDA
= 940 mg/L	Crustacea: Physa heterostropha	96 Hour(s)	LC50	NDA	NDA
= 2500 mg/L	Algae: Scendesmus subspicatus	72 Hour(s)	EC50	NDA	NDA

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- Ions can persist, dissociates in water. Binds to clay particles. Distribution: 1.51 x 10⁻⁸ to air; 45.2% to water; 54.7% to soil; 0.0755% to sediment.

Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Data lacking.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

Inventory		
Component	CAS	TSCA
Potassium chloride	7447-40-7	Yes
Sodium chloride	7647-14-5	Yes

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

United States - California**Environment****U.S. - California - Proposition 65 - Carcinogens List**

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Potassium chloride	7447-40-7	Not Listed
• Sodium chloride	7647-14-5	Not Listed

Section 16 - Other Information**Last Revision Date**

- 23/September/2014

Preparation Date

- 23/September/2014

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Key to abbreviations

NDA = No Data Available