

WESTLAKE CHEMICAL / AXIALL, LLC

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Safety Manager / Hazard Communication Coordinator  
HATCHIK SUPPLY CO  
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A2112  
A2300  
A2310  
A2309  
A2312  
A3999  
A2325

Attention: SDS COORDINATOR

Enclosed please find current Material Safety Data Sheet(s) (SDS) for the following product(s):

Calcium Hypochlorite Tablets (SAP-W8004311-US-English)  
Calcium Hypochlorite Granular (SAP-W8000183-US-English,SAP-W8000439-US-English,SAP-W8000560-US-English,SAP-W8000562-US-English)

An SDS contains important information about the potential hazards associated with the relevant product, as well as the recommended handling and storage procedures for that product. Westlake/Axiall urges you to pass on this information to your employees, customers and other handlers or users of the above-listed products. Doing so may be required under federal, state or local laws and regulations as applicable to your business and operations.

Although a SDS describes the hazards of the products and provides information on how they can be safely handled, used, and stored, it does not contain information on every possible product application. You should therefore consult with safety and health professionals knowledgeable about your particular application to determine specific measures for safe handling, use, and storage of these products.

When SDS information is updated for any Westlake/Axiall product, a revised SDS will be sent to you at the time of your first order following the revision. Current SDS for all Westlake/Axiall products are also available online at <http://westlake.com/safety-data-sheets> or upon request.

Westlake/Axiall values your business and wants to provide adequate information and technical assistance so that our products can be used properly and safely. If at any time you have questions about our products, please do not hesitate to contact us using the contact information in Section 1 of the enclosed SDS.

Email: [sdsinfo@westlake.com](mailto:sdsinfo@westlake.com)

Telephone: 1 713-960-9111

WESTLAKE CHEMICAL / AXIALL, LLC



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

- Product Name** • **Calcium Hypochlorite Tablets**
- Synonyms** • 7000; Accu-Tab® SI Calcium Hypochlorite Tablets; Accu-Tab® Wastewater Tablets; Aquabalance Blue SI Calcium Hypochlorite Tablets; Aquaward® Tablets; Bio-Sanitizer; Blue Crystal; C2180T; Ca(OCl)<sub>2</sub>. Accu-Tab® Blue Calcium Hypochlorite Tablets; Cal Hypo Tablets; Indutabs™; Jet-Chlor; Pittabs™; PML Pool Management Line Calcium Hypochlorite Tablets; Power Pro Tabs™; Repak™ Tabs; Sanuril® Tablets; Sustain® 3" Chlorinating Tablets; Sustain® Shield Energizer; VersaChlor™ System Chlorinating Tablets; Accu-Tab® Calcium Hypochlorite Tablets

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

- Relevant identified use(s)** • Industrial Application, Chlorine Disinfectant, Pool Chemicals

#### 1.3 Details of the supplier of the safety data sheet

- Manufacturer** • Axiall, LLC  
2801 Post Oak Blvd., Suite 600  
Houston, TX 77056  
United States  
www.westlake.com  
SDSinfo@westlake.com

**Telephone (General)** • +1 713-960-9111

#### 1.4 Emergency telephone number

- Manufacturer** • +1 304-455-6882

### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

#### 2.1 Classification of the substance or mixture

- CLP**
- Oxidizing Solids 2 - H272
  - Acute Toxicity Oral 4 - H302
  - Skin Corrosion 1B - H314
  - Serious Eye Damage 1 - H318
  - Hazardous to the aquatic environment Acute 1 - H400

#### 2.2 Label Elements

**CLP**

**DANGER**



- Hazard statements** • H272 - May intensify fire; oxidizer  
 H302 - Harmful if swallowed  
 H314 - Causes severe skin burns and eye damage.  
 H318 - Causes serious eye damage  
 H400 - Very toxic to aquatic life

**Precautionary statements**

- Prevention** • P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 - Keep/Store away from clothing and other combustible materials.  
 P221 - Take any precaution to avoid mixing with combustibles  
 P260 - Do not breathe dust.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P370+P378 - In case of fire: Use appropriate media for extinction.  
 P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P363 - Wash contaminated clothing before reuse.  
 P321 - Specific treatment, see supplemental first aid information.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P310 - Immediately call a POISON CENTER or doctor/physician.  
 P391 - Collect spillage.

- Storage/Disposal** • P405 - Store locked up.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

**2.3 Other Hazards**

- CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

**UN GHS Revision 3**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

**2.1 Classification of the substance or mixture**

- UN GHS**
- Oxidizing Solids 2
  - Acute Toxicity Oral 4
  - Skin Corrosion 1B
  - Serious Eye Damage 1
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
  - Hazardous to the aquatic environment Acute 1
  - Hazardous to the aquatic environment Chronic 1

**2.2 Label elements**

**UN GHS**

**DANGER**



- Hazard statements** • May intensify fire; oxidizer  
 Harmful if swallowed

Causes severe skin burns and eye damage.  
 Causes serious eye damage  
 May cause respiratory irritation  
 Very toxic to aquatic life  
 Very toxic to aquatic life with long lasting effects

## Precautionary statements

- Prevention** • Keep away from heat.  
 Keep/Store away from clothing and other combustible materials.  
 Do not eat, drink or smoke when using this product.  
 Take any precaution to avoid mixing with combustibles  
 Use only outdoors or in a well-ventilated area.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Wash contaminated clothing before reuse.  
 Specific treatment, see supplemental first aid information.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Immediately call a POISON CENTER or doctor/physician.  
 Collect spillage.
- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

- UN GHS** • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

## 2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Oxidizing Solids 2
  - Acute Toxicity Oral 4
  - Skin Corrosion 1B
  - Serious Eye Damage 1
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

**OSHA HCS 2012**

**DANGER**



- Hazard statements** • May intensify fire; oxidizer  
 Harmful if swallowed  
 Causes severe skin burns and eye damage.

Causes serious eye damage  
May cause respiratory irritation

## Precautionary statements

- Prevention** • Keep away from heat.  
Keep/Store away from clothing and other combustible materials.  
Take any precaution to avoid mixing with combustibles  
Do not breathe dust.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
Wash contaminated clothing before reuse.  
Specific treatment, see supplemental first aid information.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Immediately call a POISON CENTER or doctor/physician.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

- OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Canada

According to: WHMIS 2015

## 2.1 Classification of the substance or mixture

- WHMIS 2015 • Oxidizing Solids 2  
Acute Toxicity Oral 4  
Skin Corrosion 1B  
Serious Eye Damage 1  
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

## 2.2 Label elements

WHMIS 2015

### DANGER



- Hazard statements** • May intensify fire; oxidizer  
Harmful if swallowed  
Causes severe skin burns and eye damage.  
Causes serious eye damage  
May cause respiratory irritation

## Precautionary statements

- Prevention** • Keep away from heat

Take any precaution to avoid mixing with combustibles  
 Keep away from clothing and other combustible materials.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wear fire resistant or flame retardant clothing.

- Response •** In case of fire: Use appropriate media to extinguish.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 Wash contaminated clothing before reuse.  
 Specific treatment, see supplemental first aid information.  
 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/doctor/ physician.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal •** Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information •** 1-3 percent of this product consists of an ingredient of unknown toxicity.

## 2.3 Other hazards

### WHMIS 2015

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

#### Composition

Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Calcium hypochlorite	CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7	65% TO 76%	NDA	EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 UN GHS Revision 3: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1 OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit. WHMIS 2015: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit.
Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	10% TO 30%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU CLP: Eye Irrit 2, H319 UN GHS Revision 3: Eye Irrit. 2; Acute Tox. 5 (orl); Skin Irrit. 3 OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2
Calcium hydroxide	CAS:1305-62-0 EC Number:215-137-3	1% TO 3%	Ingestion/Oral-Rat LD50 • 7340 mg/kg	EU CLP: Eye Dam. 1 H318; Skin Corr. 1. H314; Aquatic Chronic 3, H412 UN GHS Revision 3: Eye Dam. 1; Skin Corr. 1; OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1

				<b>WHMIS 2015:</b> Eye Dam. 1; Skin Corr. 1
Calcium chlorate	<b>CAS:</b> 10137-74-3 <b>EINECS:</b> 233-378-2	0% TO 3%	NDA	<b>EU CLP:</b> Ox. Sol. 2, H272 <b>UN GHS Revision 3:</b> Ox. Sol. 2 <b>OSHA HCS 2012:</b> Ox. Sol. 2 <b>WHMIS 2015:</b> Ox. Sol. 2
Calcium carbonate	<b>CAS:</b> 471-34-1 <b>EC Number:</b> 207-439-9	1% TO 3%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	<b>EU CLP:</b> Skin Irrit. 2, H315; Eye Irrit. 2, H319 <b>UN GHS Revision 3:</b> Eye Irrit. 2; Skin Irrit. 2 <b>OSHA HCS 2012:</b> Eye Irrit. 2; Skin Irrit. 2 <b>WHMIS 2015:</b> Eye Irrit. 2; Skin Irrit. 2
Pentasodium triphosphate	<b>CAS:</b> 7758-29-4 <b>EC Number:</b> 231-838-7	< 1%	Ingestion/Oral-Rat LD50 • 3120 mg/kg Skin-Rabbit LD50 • >4640 mg/kg	<b>EU CLP:</b> Skin Irrit. 2, H315 <b>UN GHS Revision 3:</b> Skin Irrit. 2; Acute Tox. 5 (orl) <b>OSHA HCS 2012:</b> Skin Irrit. 2 <b>WHMIS 2015:</b> Skin Irrit. 2
Calcium chloride	<b>CAS:</b> 10043-52-4 <b>EC Number:</b> 233-140-8 <b>EU Index:</b> 017-013-00-2	0.1%	Ingestion/Oral-Rat LD50 • 1 g/kg	<b>EU CLP:</b> Annex VI, Table 3.1: Eye Irrit. 2, H319 <b>UN GHS Revision 3:</b> Eye Irrit. 2; Acute Tox. 4 (orl); <b>OSHA HCS 2012:</b> Eye Irrit. 2; Acute Tox. 4 (orl); <b>WHMIS 2015:</b> Eye irrit. 2; Acute Tox. 4 (orl)

See Section 16 for full text of H-statements.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim 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. Call a poison control center or doctor for further treatment advice.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a Poison Control Center or doctor for treatment advice.

#### Ingestion

- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Probable mucosal damage may contraindicate the use of gastric lavage. 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 - Firefighting Measures

## 5.1 Extinguishing media

**Suitable Extinguishing Media** • Drench with large quantities of water only.

**Unsuitable Extinguishing Media** • Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

## 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Containers may explode when heated.  
May explode from heat or contamination.  
May ignite combustibles (wood, paper, oil, clothing, etc.)  
Runoff may create fire or explosion hazard.  
Some will react explosively with hydrocarbons (fuels)  
These substances will accelerate burning when involved in a fire.  
Emits toxic fumes under fire conditions.  
Chlorine gas may be generated.

**Hazardous Combustion Products** • Decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

## 5.3 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).  
SMALL FIRES: Move containers from fire area if you can do it without risk.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up Measures** • Avoid generating dust.  
If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container.

Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

## 6.4 Reference to other sections

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Ontario	Canada Quebec	NIOSH
C.I. Pigment Blue 15	TWAs	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>	Not established	Not established	Not established	1 mg/m <sup>3</sup> TWA (dust and mist, as Cu) <i>as Copper compounds</i>
Calcium chloride (10043-52-4)	TWAs	Not established	Not established	5 mg/m <sup>3</sup> TWA	Not established	Not established
Calcium hydroxide (1305-62-0)	TWAs	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWA	5 mg/m <sup>3</sup> TWAEV	5 mg/m <sup>3</sup> TWA

Calcium carbonate (471-34-1)	TWAs	Not established	Not established	Not established	10 mg/m <sup>3</sup> TWAEV (total dust)	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	
Exposure Limits/Guidelines (Con't.)							
			Result	OSHA			
Calcium hydroxide (1305-62-0)			TWAs	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)			

## 8.2 Exposure controls

### Engineering Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

### Personal Protective Equipment

#### Respiratory

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### Eye/Face

- Wear chemical splash goggles and face shield.

#### Skin/Body

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

### 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.

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

NIOSH = National Institute of Occupational Safety and Health

TWAEV = Time-Weighted Average Exposure Value

OSHA = Occupational Safety and Health Administration

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Basic Physical and Chemical Properties

#### Material Description

Physical Form	Solid	Appearance/Description	Various colored solid (tablets) with a slight chlorine odor.
Color	Various colors.	Odor	Slight chlorine odor.
Odor Threshold	No data available		

#### General Properties

Boiling Point	Decomposes @ 170-180°C (338-356°F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	170 to 180 °C(338 to 356 °F)	pH	Alkaline
Specific Gravity/Relative Density	No data available	Bulk Density	1 to 1.07 g/cm <sup>3</sup>
Water Solubility	Soluble 100 %	Viscosity	No data available

**Volatility**

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		

**Flammability**

Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	60°C(140°F) for 55-60 lb packages	Flammability (solid, gas)	No data available

**Environmental**

Octanol/Water Partition coefficient	No data available		
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**9.2 Other Information**

- No additional physical and chemical parameters noted.

**Section 10: Stability and Reactivity****10.1 Reactivity**

- No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

**10.3 Possibility of hazardous reactions**

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

**10.4 Conditions to avoid**

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

**10.5 Incompatible materials**

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, ammonia, petroleum products, paint products, wood and paper, and pool chemicals. Acid or ammonia contamination will release toxic gases.

**10.6 Hazardous decomposition products**

- Depending on conditions, product slowly releases chlorine gas.

**Section 11 - Toxicological Information****11.1 Information on toxicological effects**

Components		
Calcium chloride (0.1%)	10043-52-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1 g/kg
Calcium hydroxide (1% TO 3%)	1305-62-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7340 mg/kg; <b>Irritation:</b> Eye-Rabbit • 10 mg • Severe irritation
Calcium carbonate (1% TO 3%)	471-34-1	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 6450 mg/kg; <b>Irritation:</b> Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation

Sodium chloride (10% TO 30%)	7647-14 -5	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3000 mg/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; <b>Vascular:BP elevation not characterized in autonomic section;</b> <b>Mutagen:</b> Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; <b>Reproductive:</b> 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>
Pentasodium triphosphate (< 1%)	7758-29 -4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3120 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Behavioral:Coma;</b> Skin-Rabbit LD50 • >4640 mg/kg; <b>Behavioral:Somnolence (general depressed activity); Lungs, Thorax, or Respiration:Dyspnea;</b> <b>Irritation:</b> Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Calcium hypochlorite (65% TO 76%)	7778-54 -3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Oral 4 - ATEmix (oral)= 1118 mg/kg UN GHS 3 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg WHMIS 2015 • Acute Toxicity - Oral 4 - ATEmix (oral) = 1058 mg/kg
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B UN GHS 3 • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B
Serious eye damage/Irritation	EU/CLP • Serious Eye Damage 1 UN GHS 3 • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1
Skin sensitization	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Respiratory sensitization	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Aspiration Hazard	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Carcinogenicity	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Germ Cell Mutagenicity	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Toxicity for Reproduction	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available

	<p><b>WHMIS 2015</b> • No data available</p>
STOT-SE	<p><b>EU/CLP</b> • No data available  <b>UN GHS 3</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  <b>WHMIS 2015</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation</p>
STOT-RE	<p><b>EU/CLP</b> • No data available  <b>UN GHS 3</b> • No data available  <b>OSHA HCS 2012</b> • No data available  <b>WHMIS 2015</b> • No data available</p>

**Potential Health Effects**

**Inhalation**

**Acute (Immediate)**

- May cause corrosive burns - irreversible damage. May cause respiratory irritation.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

**Skin**

**Acute (Immediate)**

- Causes severe skin burns.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

**Eye**

**Acute (Immediate)**

- Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

**Ingestion**

**Acute (Immediate)**

- Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.

**Chronic (Delayed)**

- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Key to abbreviations**

LD = Lethal Dose

TD = Toxic Dose

**Section 12 - Ecological Information**

**12.1 Toxicity**

	CAS	
Calcium Hypochlorite Tablets	NDA	<p><b>Aquatic Toxicity-Fish:</b> 96 Hour(s) <i>Bluegill - Lepomis macrochirus</i> 57-60 µg/L [Fresh water] Comments: Calcium hypochlorite                      96 Hour(s) LC50 <i>Atlantic silverside - Menidia menidia</i> 37 µg/L [Marine water] Comments: Calcium hypochlorite                      96 Hour(s) LC50 <i>Bluegill - Lepomis macrochirus</i> 1294600 µg/L [Fresh water] Comments: Sodium chloride                      96 Hour(s) LC50 <i>Guppy - Poecilia reticulata</i> 356 mL/kg [Marine water] Comments: Calcium hydroxide                      96 Hour(s) NOEC <i>Guppy - Poecilia reticulata</i> 56 mg/L [Marine water] Comments: Calcium hydroxide  <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 <i>Water flea - Daphnia magna</i> 402600-469200 µg/L [Fresh water] Comments: Sodium chloride                      48 Hour(s) EC50 <i>Water flea - Daphnia magna</i> 0.073-0.079 µg/L [Fresh water] Comments: Calcium hypochlorite</p>

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to

enter groundwater, surface water or drains. Hazardous to the aquatic environment  
Chronic 1.

## 12.2 Persistence and degradability

- Material data lacking.

## 12.3 Bioaccumulative potential

- Material data lacking.

## 12.4 Mobility in Soil

- Material data lacking.

## 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

## 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product waste

- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Packaging waste

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

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
TDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IMO/IMDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IATA/ICAO	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Chronic Aquatic Toxicity

#### 14.6 Special precautions for user

- Under 49 CFR (DOT), non-bulk U.S. domestic shipments by ground do not require Marine Pollutant markings or labels, nor does Marine Pollutant need to be mentioned on shipping papers.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

- Data lacking.

**Section 15 - Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA Hazard Classifications** • Acute, Fire

**FIFRA – Pesticide Labeling**

This chemical is a pesticide product registered by the Environmental Protection Agency and is regulated under FIFRA. Pesticide products are exempt from TSCA and not subject to inventory requirements.

- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Calcium chloride	10043-52-4	Yes	No	Yes	No	Yes
Calcium hydroxide	1305-62-0	Yes	No	Yes	No	Yes
Calcium carbonate	471-34-1	Yes	No	Yes	No	Yes
Calcium chlorate	10137-74-3	No	No	Yes	No	No
Calcium hypochlorite	7778-54-3	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes
Pentasodium triphosphate	7758-29-4	Yes	No	Yes	No	Yes

**Canada****Labor****Canada - WHMIS 1988 - Classifications of Substances**

• Calcium chloride	10043-52-4	D2B
• Calcium hypochlorite	7778-54-3	C, E
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	E
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Calcium carbonate	471-34-1	Uncontrolled product according to WHMIS classification criteria

**Canada - WHMIS 1988 - Ingredient Disclosure List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	1 %
• Sodium chloride	7647-14-5	Not Listed

• Calcium carbonate	471-34-1	Not Listed
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**Environment****Canada - CEPA - Priority Substances List**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**United States****Labor****U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - OSHA - Specifically Regulated Chemicals**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	10 lb final RQ; 4.54 kg final RQ
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed

• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

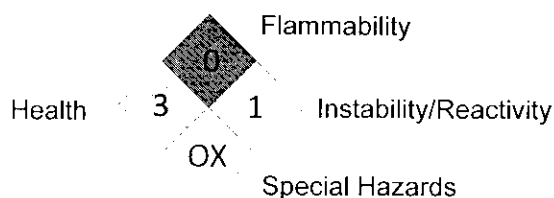
**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Pentasodium triphosphate	7758-29-4	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

### 15.3 National Fire Protection Association (U.S.A.)

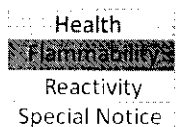


NFPA 704 Ratings

0 to 4

Higher number

more severe



### 15.4 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

## Section 16 - Other Information

#### Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

#### Revision Date

- 19/May/2020

#### Preparation Date

- 26/June/2015

#### Disclaimer/Statement of Liability

- The technical data given herein 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 guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

#### Key to abbreviations

NDA = No Data Available



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

##### Product Name

- **Calcium Hypochlorite Granular**

##### Synonyms

- All-Clear™ ChlorRight; All-Clear™ Shock Clear; AmeriChlor Calcium Hypochlorite Granules; Assalt 73; BioGuard Burn Out 73; BioGuard CLC Classic; Ca(OCl)<sub>2</sub>; Cal Hypo Granules; Calcium Hypochlorite; Calcium Hypochlorite Granular; Ideal Pool Products Super Shock 73; Induclor™; Induclor™ 70; More Chlor 65; Nature's Way Super Pool Shock; Pittclor 70; Pittclor®; Power Powder® Plus; Power Powder® Pro; Prestochlor™; Pro Team Power 73; ProGuard; Refresh Dry Chlorinating Granular; Re-Fresh®; Regal®; Repak™ + Granules; Repak™ Dry Chlorinating Granules; Super Pool Shock; Super Shock-It®; Super Shock-It® 73; Super Zappit™; Sustain® Shock Treatment; Tropiclear; Vanguard® Plus Calcium Hypochlorite Granules; Zappit™; Zappit™ 73

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

- Relevant identified use(s) • Industrial Application, Chlorine Disinfectant, Pool Chemicals

#### 1.3 Details of the supplier of the safety data sheet

##### Manufacturer

- Axiall, LLC  
2801 Post Oak Blvd., Suite 600  
Houston, TX 77056  
United States  
www.westlake.com  
SDSinfo@westlake.com

Telephone (General) • +1 713-960-9111

#### 1.4 Emergency telephone number

- Manufacturer • +1 304-455-6882

### Section 2: Hazards Identification

#### EU/EEC

According to: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

#### 2.1 Classification of the substance or mixture

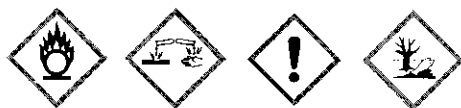
##### CLP

- Oxidizing Solids 2 - H272  
Acute Toxicity Oral 4 - H302  
Skin Corrosion 1B - H314  
Serious Eye Damage 1 - H318  
Hazardous to the aquatic environment Acute 1 - H400

#### 2.2 Label Elements

##### CLP

**DANGER**



- Hazard statements** • H272 - May intensify fire; oxidizer  
 H302 - Harmful if swallowed  
 H318 - Causes serious eye damage  
 H314 - Causes severe skin burns and eye damage.  
 H400 - Very toxic to aquatic life

### Precautionary statements

- Prevention** • P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P220 - Keep/Store away from clothing and other combustible materials.  
 P221 - Take any precaution to avoid mixing with combustibles  
 P260 - Do not breathe dusts or mists.  
 P264 - Wash thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P273 - Avoid release to the environment.  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • P370+P378 - In case of fire: Use appropriate media to extinguish.  
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P321 - Specific treatment, see supplemental first aid information.  
 P363 - Wash contaminated clothing before reuse.  
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P301+P312 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell.  
 P330 - Rinse mouth.  
 P331 - Do NOT induce vomiting.  
 P391 - Collect spillage.
- Storage/Disposal** • P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
 P405 - Store locked up.  
 P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

### 2.3 Other Hazards

- CLP • According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

## UN GHS Revision 3

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Third Revised Edition

### 2.1 Classification of the substance or mixture

- UN GHS • Oxidizing Solids 2  
 Acute Toxicity Oral 4  
 Skin Corrosion 1B  
 Serious Eye Damage 1  
 Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation  
 Hazardous to the aquatic environment Acute 1  
 Hazardous to the aquatic environment Chronic 1

### 2.2 Label elements

UN GHS

**DANGER**



- Hazard statements** • May intensify fire; oxidizer  
 Harmful if swallowed  
 Causes serious eye damage  
 May cause respiratory irritation  
 Very toxic to aquatic life  
 Very toxic to aquatic life with long lasting effects  
 Causes severe skin burns and eye damage.

### Precautionary statements

- Prevention** • Keep away from heat.  
 Keep/Store away from clothing and other combustible materials.  
 Take any precaution to avoid mixing with combustibles .  
 Do not breathe dusts or mists.  
 Avoid breathing dust, fume, gas, mist, vapours and/or spray.  
 Wash thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media for extinction.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Wash contaminated clothing before reuse.  
 Specific treatment, see supplemental first aid information.  
 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 Collect spillage.
- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Supplemental information** • 0-3 percent of this product consists of an ingredient of unknown toxicity.

### 2.3 Other hazards

- UN GHS** • According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered hazardous

## United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

### 2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Oxidizing Solids 2
  - Acute Toxicity Oral 4
  - Skin Corrosion 1B
  - Serious Eye Damage 1
  - Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

### 2.2 Label elements

**OSHA HCS 2012**

**DANGER**



- Hazard statements** • May intensify fire; oxidizer  
 Harmful if swallowed  
 Causes severe skin burns and eye damage.  
 Causes serious eye damage  
 May cause respiratory irritation

**Precautionary statements**

- Prevention** • Keep away from heat.  
 Keep/Store away from clothing and other combustible materials.  
 Take any precaution to avoid mixing with combustibles  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.
- Response** • In case of fire: Use appropriate media to extinguish.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 Call a POISON CENTER/doctor/ physician if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Wash contaminated clothing before reuse.  
 Specific treatment, see supplemental first aid information.  
 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/doctor/ physician.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

- Supplemental information** • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

**2.3 Other hazards**

- OSHA HCS 2012** • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

**Canada**

According to: WHMIS 2015

**2.1 Classification of the substance or mixture**

- WHMIS 2015** • Oxidizing Solids 2  
 Acute Toxicity Oral 4  
 Skin Corrosion 1B  
 Serious Eye Damage 1  
 Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation

**2.2 Label elements**

**WHMIS 2015**

**DANGER**



- Hazard statements** • May intensify fire; oxidizer

Harmful if swallowed  
 Causes severe skin burns and eye damage.  
 Causes serious eye damage  
 May cause respiratory irritation

### Precautionary statements

- Prevention** • Keep away from heat  
 Take any precaution to avoid mixing with combustibles  
 Keep away from clothing and other combustible materials.  
 Do not breathe dust.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Wear fire resistant or flame retardant clothing.
- Response** • In case of fire: Use appropriate media to extinguish.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 Call a POISON CENTER/doctor if you feel unwell.  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
 Wash contaminated clothing before reuse.  
 Immediately call a POISON CENTER/doctor.  
 Specific treatment, see supplemental first aid information.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- Storage/Disposal** • Store in a well-ventilated place. Keep container tightly closed.  
 Store locked up.  
 Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

**Supplemental information** • 0 - 3 percent of this product consists of an ingredient of unknown toxicity.

### 2.3 Other hazards

- WHMIS 2015** • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

### 3.1 Substances

- Material does not meet the criteria of a substance.

### 3.2 Mixtures

Composition				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive
Calcium hypochlorite	CAS:7778-54-3 EC Number:231-908-7 EU Index:017-012-00-7	65% TO 76%	NDA	EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400 UN GHS Revision 3: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1 OSHA HCS 2012: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit. WHMIS 2015: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (Orl); STOT SE 3: Resp. Irrit.

Sodium chloride	CAS:7647-14-5 EC Number:231-598-3	10% TO 30%	Ingestion/Oral-Rat LD50 • 3000 mg/kg	EU CLP: Eye Irrit. 2, H319 UN GHS Revision 3: Acute Tox. 5 (oral); Eye Irrit. 2; Skin Irrit. 3 OSHA HCS 2012: Eye Irrit. 2 WHMIS 2015: Eye Irrit. 2
Calcium hydroxide	CAS:1305-62-0 EC Number:215-137-3	1% TO 3%	Ingestion/Oral-Rat LD50 • 7340 mg/kg	EU CLP: Eye Dam. 1, H318; Skin Corr. 1, H314; Aquatic Chronic 3, H412 UN GHS Revision 3: Eye Dam. 1; Skin Corr. 1; OSHA HCS 2012: Skin Corr. 1; Eye Dam. 1 WHMIS 2015: Skin Corr. 1; Eye Dam. 1
Calcium chlorate	CAS:10137-74-3 EINECS:233-378-2	0% TO 3%	NDA	EU CLP: Ox. Sol. 2, H272 UN GHS Revision 3: Ox. Sol. 2; OSHA HCS 2012: Ox. Sol. 2 WHMIS 2015: Ox. Sol. 2
Calcium carbonate	CAS:471-34-1 EC Number:207-439-9	1% TO 3%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319 UN GHS Revision 3: Skin Irrit. 2; Eye Irrit. 2 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2 WHMIS 2015: Skin Irrit. 2; Eye Irrit. 2
Calcium chloride	CAS:10043-52-4 EC Number:233-140-8 EU Index:017-013-00-2	0.1%	Ingestion/Oral-Rat LD50 • 1 g/kg	EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319 UN GHS Revision 3: Eye Irrit. 2; Acute Tox. 4 (orl); OSHA HCS 2012: Eye Irrit. 2; Acute Tox. 4 (Orl) WHMIS 2015: Eye Irrit. 2; Acute Tox. 4 (Orl)

See Section 16 for full text of H-statements.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

#### Inhalation

- Move victim to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method if victim 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. Call a poison control center or doctor for further treatment advice.

#### Skin

- For minor skin contact, avoid spreading material on unaffected skin. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Call a poison center or doctor for treatment advice.

#### Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present after the first 5 minutes. Continue Rinsing. Call a poison control center or doctor for further treatment advice.

#### Ingestion

- If swallowed, seek medical attention immediately from poison control center or doctor. Have a person sip a glass of water, if able to swallow. Do not give anything by mouth to an unconscious person. Do not induce vomiting unless told to do so by the poison control center or doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

- If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during, or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. Refer to Section 11 - Toxicological Information.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes to Physician

- Probable mucosal damage may contraindicate the use of gastric lavage. 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 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • Drench with large quantities of water only.

**Unsuitable Extinguishing Media** • Do not use dry chemicals or foams. Product supplies own oxygen, therefore attempts to smother fire with a wet blanket, carbon dioxide, dry chemical extinguisher or other means are not effective. Product has the potential to cause a violent reaction if dry chemical fire extinguishers are used.

### 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** • Containers may explode when heated.  
May explode from heat or contamination.  
May ignite combustibles (wood, paper, oil, clothing, etc.)  
Runoff may create fire or explosion hazard.  
Some will react explosively with hydrocarbons (fuels)  
These substances will accelerate burning when involved in a fire.  
Emits toxic fumes under fire conditions.  
Chlorine gas may be generated.

**Hazardous Combustion Products** • Depending on conditions, decomposition products may include the following materials: carbon oxides; halogenated compounds; metal oxide/oxides.

### 5.3 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).  
SMALL FIRES: Move containers from fire area if you can do it without risk.  
Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.  
No action shall be taken involving any personal risk or without suitable training.  
This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## Section 6 - Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** • Use extreme caution in handling spilled material. Ventilate the area before entry. Use spark-proof tools and explosion-proof equipment. Do not walk through spilled material. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

**Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Do not get water inside container.

### 6.2 Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

### 6.3 Methods and material for containment and cleaning up

**Containment/Clean-up** • Avoid generating dust.

**Measures**

If fire or decomposition occurs in area of spill, immediately douse with plenty of water. Otherwise, sweep up all visible material using a clean (new, if possible), dry shovel and broom and immediately dissolve material in a water-filled container. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed.

**6.4 Reference to other sections**

- Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Section 7 - Handling and Storage**

**7.1 Precautions for safe handling**

**Handling**

- Use extreme caution in handling spilled material. Use only with adequate ventilation. Keep away from combustible material. Strong oxidizer. Contact with other material may cause fire. Use spark-proof tools and explosion-proof equipment. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products. Contamination with moisture, acids, organic matter, other chemicals (including, but not limited to cleaning chemicals and other pool chemicals), petroleum or paint products or other easily combustible materials may start a chemical reaction with generation of heat, liberation of hazardous gases and possible violent reaction leading to fire or explosion. Always add product to large quantities of water to fully dissolve product. Do not pour water into product, always add product to water. Use only a clean (new, if possible), dry scoop made of metal or plastic each time product is taken from the container. Do not use with stabilized chlorine or bromine tablet chemical feeders. Do not add this product to any dispensing device containing remnants of any other product or pool chemical. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Empty containers retain product residue and can be hazardous. Do not reuse container. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

- Ventilate enclosed areas. Keep only in the original container. Keep container closed. Separate from acids, alkalis, reducing agents and combustibles. Product is an NFPA Class 3 oxidizer which can cause a severe increase in fire intensity. Store in a cool, dry, well-ventilated place. If product becomes contaminated or decomposes do not reseal container. If possible isolate container in open air or well-ventilated area.

**7.3 Specific end use(s)**

- Refer to Section 1.2 - Relevant identified uses.

**Section 8 - Exposure Controls/Personal Protection**

**8.1 Control parameters**

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Ontario	Canada Quebec	NIOSH
Calcium chloride (10043-52-4)	TWAs	Not established	Not established	5 mg/m3 TWA	Not established	Not established
Calcium hydroxide (1305-62-0)	TWAs	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWAEV	5 mg/m3 TWA
Calcium carbonate (471-34-1)	TWAs	Not established	Not established	Not established	10 mg/m3 TWAEV (total dust)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)

**Exposure Limits/Guidelines (Con't.)**

	Result	OSHA
Calcium hydroxide (1305-62-0)	TWAs	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)

**8.2 Exposure controls****Engineering Measures/Controls**

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

**Personal Protective Equipment****Respiratory**

- If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Eye/Face**

- Wear chemical splash goggles and face shield.

**Skin/Body**

- Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. HANDS: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. GLOVES: Nitrile, neoprene, and butyl rubber.

**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.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

STEV = Short Term Exposure Value

NIOSH = National Institute of Occupational Safety and Health

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

OSHA = Occupational Safety and Health Administration

TWAEV = Time-Weighted Average Exposure Value

STEL = Short Term Exposure Limits are based on 15-minute exposures

**Section 9 - Physical and Chemical Properties****9.1 Information on Basic Physical and Chemical Properties**

<b>Material Description</b>			
Physical Form	Solid	Appearance/Description	Various colored solid (granular solid) with a slight chlorine odor.
Color	Various colors.	Odor	Slight chlorine odor.
Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	170 to 180°C (338 to 356°F) Decomposes	Melting Point/Freezing Point	No data available
Decomposition Temperature	170 to 180°C (338 to 356°F)	pH	Alkaline
Specific Gravity/Relative Density	No data available	Bulk Density	1 to 1.07 g/cm <sup>3</sup>
Water Solubility	Soluble 100 %	Viscosity	No data available
<b>Volatility</b>			

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	Volatiles (Wt.)	0 %
Volatiles (Vol.)	0 %		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	No data available
Self-Accelerating Decomposition Temperature (SADT)	55°C (131°F) for 100 lb packages	Flammability (solid, gas)	No data available
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

## 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- The product may not be stable under certain conditions of storage or use. Product decomposes at approximately 170-180°C (338-356°F) releasing oxygen gas and some chlorine gas.

### 10.3 Possibility of hazardous reactions

- Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials, contact with acids/ammonia. Reactions may include the following: risk of causing or intensifying fire, liberation of toxic gas.

### 10.4 Conditions to avoid

- Heating may cause a fire or explosion. Excessive heat will cause decomposition resulting in the release of oxygen and chlorine gas.

### 10.5 Incompatible materials

- Highly reactive or incompatible with the following materials: moisture, combustible materials, organic materials, metals, acids, alkalis, oxidizing materials, reducing materials, ammonia, petroleum products, paint products, wood and paper, and pool chemicals. Acid or ammonia contamination will release toxic gases.

### 10.6 Hazardous decomposition products

- Depending on conditions, product slowly releases chlorine gas.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

Components		
Calcium chloride (0.1%)	10043-52-4	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 1 g/kg
Calcium hydroxide (1% TO 3%)	1305-62-0	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 7340 mg/kg; <b>Irritation:</b> Eye-Rabbit • 10 mg • Severe irritation
Calcium carbonate (1% TO 3%)	471-34-1	<b>Irritation:</b> Eye-Rabbit • 750 µg 24 Hour(s) • Severe irritation
		<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 3000 mg/kg;

Sodium chloride (10% TO 30%)	7647-14 -5	<b>Irritation:</b> Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; <b>Vascular:BP elevation not characterized in autonomic section;</b> <b>Mutagen:</b> Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; <b>Reproductive:</b> Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); <i>Reproductive Effects:Maternal Effects:Postpartum</i> ; <i>Reproductive Effects:Effects on Newborn:Biochemical and metabolic</i>
Calcium hypochlorite (65% TO 76%)	7778-54 -3	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties	Classification
Acute toxicity	EU/CLP • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1118 mg/kg UN GHS 3 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg WHMIS 2015 • Acute Toxicity - Oral 4 - ATEmix (Orl) = 1054 mg/kg
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B UN GHS 3 • Skin Corrosion 1B OSHA HCS 2012 • Skin Corrosion 1B WHMIS 2015 • Skin Corrosion 1B
Serious eye damage/Irritation	EU/CLP • Serious Eye Damage 1 UN GHS 3 • Serious Eye Damage 1 OSHA HCS 2012 • Serious Eye Damage 1 WHMIS 2015 • Serious Eye Damage 1
Skin sensitization	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Respiratory sensitization	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Aspiration Hazard	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Carcinogenicity	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Germ Cell Mutagenicity	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
Toxicity for Reproduction	EU/CLP • No data available UN GHS 3 • No data available OSHA HCS 2012 • No data available WHMIS 2015 • No data available
	EU/CLP • No data available UN GHS 3 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract

STOT-SE	Irritation <b>OSHA HCS 2012</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation Irritation <b>WHMIS 2015</b> • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
STOT-RE	<b>EU/CLP</b> • No data available <b>UN GHS 3</b> • No data available <b>OSHA HCS 2012</b> • No data available <b>WHMIS 2015</b> • No data available

**Potential Health Effects**

**Inhalation**

- Acute (Immediate)** • May cause corrosive burns - irreversible damage. May cause respiratory irritation.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.

**Skin**

- Acute (Immediate)** • Causes severe skin burns.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials will cause dermatitis.

**Eye**

- Acute (Immediate)** • Causes serious eye damage. Direct contact with the eyes can cause irreversible damage, including blindness.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause conjunctivitis.

**Ingestion**

- Acute (Immediate)** • Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.
- Chronic (Delayed)** • Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal disturbances.

**Carcinogenic Effects**

- This material contains components that may cause cancer, however, based on regulatory criteria this material is not classified as a carcinogen.

**Key to abbreviations**

LD = Lethal Dose

TD = Toxic Dose

**Section 12 - Ecological Information**

**12.1 Toxicity**

	CAS	
Calcium Hypochlorite Granular	NDA	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Bluegill - Lepomis macrochirus</i> 57-60 µg/L [Fresh water] Comments: Calcium hypochlorite 96 Hour(s) LC50 <i>Atlantic silverside - Menidia menidia</i> 37 µg/L [Marine water] Comments: Calcium hypochlorite 96 Hour(s) LC50 <i>Bluegill - Lepomis macrochirus</i> 1294600 µg/L [Fresh water] Comments: Sodium chloride 96 Hour(s) LC50 <i>Guppy - Poecilia reticulata</i> 356 mg/L [Marine water] Comments: Calcium hydroxide 96 Hour(s) NOEC <i>Guppy - Poecilia reticulata</i> 56 mg/L [Marine water] Comments: Calcium hydroxide <b>Aquatic Toxicity-Crustacea:</b> 48 Hour(s) EC50 <i>Water flea - Daphnia magna</i> 402600-469200 µg/L [Fresh water] Comments: Sodium chloride 48 Hour(s) EC50 <i>Water flea - Daphnia magna</i> 0.073-0.079 µg/L [Marine water] Comments: Calcium hypochlorite

- LC50: 0.088 mg/L (96 hr, Bluegill Sunfish) Very toxic to aquatic life. Do not allow to enter groundwater, surface water or drains.

**12.2 Persistence and degradability**

- Material data lacking.

### 12.3 Bioaccumulative potential

- Material data lacking.

### 12.4 Mobility in Soil

- Material data lacking.

### 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

- No studies have been found.

## Section 13 - Disposal Considerations

### 13.1 Waste treatment methods

#### Product waste

- The generation of waste should be avoided or minimized wherever possible. This material and its container must be disposed of in a safe way. Spilled material that has been swept up and dissolved in water should be used immediately in the normal application for which this product is being consumed. If this is not possible, material may be neutralized. Please contact Axiall Corporation Emergency Response team for guidance at 304-455-6882. Note: Only properly neutralized material should be flushed to sewer. Unneutralized material can cause environmental damage to receiving water or can interfere with treatment plant operation. Care must be taken when using or disposing of chemical materials and/or their containers to prevent environmental contamination. Empty containers retain product residue and can be hazardous. Residual material remaining in empty container can react to cause fire. Thoroughly flush empty container with water then destroy by placing in trash collection. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

#### Packaging waste

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

## Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	UN2880	Calcium hypochlorite, hydrated	5.1	II	Marine Pollutant
TDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IMO/IMDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IATA/ICAO	UN2880	Calcium hypochlorite, hydrated	5.1	II	Chronic Aquatic Toxicity

#### 14.6 Special precautions for user

- Under 49 CFR (DOT), non-bulk U.S. domestic shipments by ground do not require Marine Pollutant markings or labels, nor does Marine Pollutant need to be mentioned on shipping papers.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

- Data lacking.

## Section 15 - Regulatory Information

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

**SARA Hazard Classifications** • Acute, Fire

#### FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the Environmental Protection Agency and is regulated under FIFRA. Pesticide products are exempt from TSCA and not subject to inventory requirements.

- This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals.

Inventory						
Component	CAS	Canada DSL	Canada NDSL	EU EINECS	EU ELNICS	TSCA
Calcium chloride	10043-52-4	Yes	No	Yes	No	Yes
Calcium hydroxide	1305-62-0	Yes	No	Yes	No	Yes
Calcium carbonate	471-34-1	Yes	No	Yes	No	Yes
Calcium chlorate	10137-74-3	No	No	Yes	No	No
Calcium hypochlorite	7778-54-3	Yes	No	Yes	No	Yes
Sodium chloride	7647-14-5	Yes	No	Yes	No	Yes

### Canada

#### Labor

##### Canada - WHMIS - Classifications of Substances

• Calcium chloride	10043-52-4	D2B
• Calcium hypochlorite	7778-54-3	C, E
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	E
• Sodium chloride	7647-14-5	Uncontrolled product according to WHMIS classification criteria
• Calcium carbonate	471-34-1	Uncontrolled product according to WHMIS classification criteria

##### Canada - WHMIS - Ingredient Disclosure List

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	1 %
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

#### Environment

##### Canada - CEPA - Priority Substances List

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed

• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

## United States

### Labor

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

#### U.S. - OSHA - Specifically Regulated Chemicals

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

### Environment

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	10 lb final RQ; 4.54 kg final RQ
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

**U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed

• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

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

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

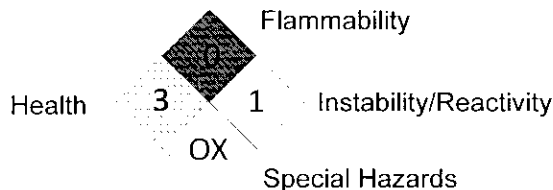
**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

• Calcium chloride	10043-52-4	Not Listed
• Calcium hypochlorite	7778-54-3	Not Listed
• Calcium chlorate	10137-74-3	Not Listed
• Calcium hydroxide	1305-62-0	Not Listed
• Sodium chloride	7647-14-5	Not Listed
• Calcium carbonate	471-34-1	Not Listed

## 15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

## 15.3 National Fire Protection Association (U.S.A.)



NFPA 704 Ratings  
0 to 4  
Higher number  
more severe

Health
Reactivity
Special Notice

## 15.4 Other Information

## Section 16 - Other Information

### Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H412 - Harmful to aquatic life with long lasting effects

### Revision Date

- 20/May/2020

### Preparation Date

- 13/October/2015

### Disclaimer/Statement of Liability

- The technical data given herein 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 guidance for safe handling, use, processing, storage, transportation, disposal and release, and is not to be considered a warranty or quality specification. No guarantee is being given as to the end use performance. The product is sold on the basis that buyers test the product for their specific purposes. This information related to the material designated and may not be valid for such material used in combination with any other materials or in any process.

### Key to abbreviations

NDA = No Data Available