## **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

• Aquabalance Blue SI Calcium Hypochlorite Tablets; Calcium Hypochlorite Tablets; Cal Hypo Tablets; Ca(OCI)2. Accu-Tab® Blue Calcium Hypochlorite Tablets, Accu-Tab® SI Calcium Hypochlorite Tablets, Accu-Tab® Wastewater Tablets, Aquaward® Tablets, Bio-Sanitizer, Blue Crystal, C2180T, Indutabs™, Jet-Chlor; Leslie's Power Pro™ Tabs®, Pittabs™, PML Pool Management Line Calcium Hypochlorite Tablets, Repak™ Tabs, Sanuril® Tablets, Sustain® 3" Chlorinating Tablets, Sustain® Shield Energizer, VersaChlor™ System Chlorinating Tablets, 7000

## 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

1000 Abernathy Rd. NE, Suite 1200

Atlanta, GA 30328 United States www.axiall.com msdsinfo@axiall.com

**Telephone (General)** • +1 225-685-1240

## 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 453/2010]

According to: EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

**CLP** 

Oxidizing Solids 2 - H272
 Acute Toxicity Oral 4 - H302
 Skin Corrosion 1B - H314

Hazardous to the aquatic environment Acute 1 - H400

DSD/DPD

Oxidizing (O)
 Corrosive (C)
 Harmful (Xn)

Dangerous to the Environment (N)

R8, R22, R31, R34, R50

#### 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.

H400 - Very toxic to aquatic life

### **Precautionary statements**

**Prevention** • P210 - Keep away from heat.

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 ŎN 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.

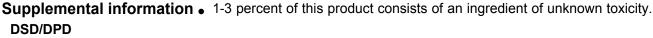
Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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.

# DSD/DPD











**Risk phrases** • R8 - Contact with combustible material may cause fire.

R22 - Harmful if swallowed.

R31 - Contact with acids liberates toxic gas.

R34 - Causes burns.

R50 - Very toxic to aquatic organisms.

#### **Safety phrases** • S36 - Wear suitable protective clothing.

S37 - Wear suitable gloves.

S39 - Wear eye/face protection.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S57 - Use appropriate containment to avoid environmental contamination.

#### 2.3 Other Hazards

**CLP** 

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

DSD/DPD

According to European Directive 1999/45/EC this material is considered dangerous.

#### **UN GHS**

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

#### 2.1 Classification of the substance or mixture

**UN GHS** 

 Oxidizina 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)**

Revision Date: 21/May/2015

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

## 2.1 Classification of the substance or mixture

**WHMIS** 

Oxidizing - C

Other Toxic Effects - D2B

Corrosive - E

#### 2.2 Label elements

Revision Date: 21/May/2015

#### **WHMIS**







Oxidizing - C
 Other Toxic Effects - D2B
 Corrosive - E

# 2.3 Other hazards WHMIS

 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	UN GHS: Ox. Sol. 2; Skin Corr. 1B; Eye Dam. 1; Acute Tox. 4 (orl); STOT SE 3: Resp. Irrit; Aquatic Acute 1; Aquatic Chronic 1  EU DSD/DPD: Annex VI, Table 3.2: O, R8; C, R34; Xn, R22; R31; N, R50  EU CLP: Annex VI, Table 3.1: Ox. Sol. 2, H272; Acute Tox. 4 *, H302; Skin Corr. 1B, H314; Aquatic Acute 1, H400  OSHA HCS 2012: 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	UN GHS: Eye Irrit. 2; Acute Tox. 5 (orl); Skin Irrit. 3; EU DSD/DPD: Xi; R36 EU CLP: Eye Irrit 2, H319 OSHA HCS 2012: Eye Irrit. 2
Calcium hydroxide	CAS:1305-62-0 EC Number:215- 137-3	1% TO 3%	Ingestion/Oral-Rat LD50 • 7340 mg/kg	UN GHS: Eye Dam. 1; Skin Corr. 1; EU DSD/DPD: C; R35 Xi; R41; R52-53 EU CLP: Eye Dam. 1 H318; Skin Corr. 1. H314; Aquatic Chronic 3, H412 OSHA HCS 2012: Eye Dam. 1; Skin Corr. 1
Calcium chlorate	CAS:10137-74-3 EINECS:233-378- 2	1% TO 3%	NDA	UN GHS: Ox. Sol. 2 EU DSD/DPD: O; R8 EU CLP: Ox. Sol. 2, H272 OSHA HCS 2012: Ox. Sol. 2
Calcium carbonate	CAS:471-34-1 EC Number:207- 439-9	1% TO 3%	Ingestion/Oral-Rat LD50 • 6450 mg/kg	UN GHS: Eye Irrit. 2; Skin Irrit. 2 EU DSD/DPD: Xi; R36/38 EU CLP: Skin Irrit. 2, H315; Eye Irrit. 2, H319 OSHA HCS 2012: Eye Irrit. 2; Skin Irrit. 2
Pentasodium triphosphate	CAS:7758-29-4 EC Number:231- 838-7	< 0.6%	Ingestion/Oral-Rat LD50 • 3120 mg/kg Skin-Rabbit LD50 • >4640 mg/kg	UN GHS: Skin Irrit. 2; Acute Tox. 5 (orl) EU DSD/DPD: Xi, R38 EU CLP: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2
	CAS:7439-95-4 EC Number:231-			UN GHS: Water-react. 1; Pyr. Sol. 1 EU DSD/DPD: Annex VI, Table 3.2: F, R15, R17

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Magnesium	104-6 <b>EU Index</b> :012- 001-00-3	0.1834%	NDA	EU CLP: Annex VI, Table 3.1: Water-react. 1, H260; Pyr. Sol. 1, H250 OSHA HCS 2012: Water-react. 1; Pyr. Sol. 1
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	UN GHS: Eye Irrit. 2; Acute Tox. 4 (orl); EU DSD/DPD: Annex VI, Table 3.2: Xi, R36 EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319 OSHA HCS 2012: Eye Irrit. 2; Acute Tox. 4 (orl);

See Section 16 for full text of H-statements and R-phrases.

#### 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 artifical 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 posion center or doctor for further treatment advice.

Skin

 For minor skin contact with substance, 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 further 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 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 poision 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, EMERGENY ROOM
OR PHYSICIAN immediately; have Saftey Data Sheet information available. Never give anything
by mouth to an uncounscious 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 possobolity that overexposure to materials other than this product may have occured.

## **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** 

Decomposition products may include the following materials: carbon oxides;

#### **Products**

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. See NFPA 400. Hazardous Materials Code for further information. 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	С	anada British Columbia	С	anada Ontario	Canada Quebec	NIOSH
C.I. Pigment Blue 15 as Copper compounds	TWAs	1 mg/m3 TWA (dust and mist, as Cu) as Copper compounds	Not	Not established Not		established	Not established	1 mg/m3 TWA (dust and mist, as Cu) as Copper compounds
Calcium chloride (10043-52-4)	TWAs	Not established	Not (	Not established 5 mg/m3 TWA		g/m3 TWA	Not established	Not established
Calcium hydroxide (1305-62-0)	TWAs	5 mg/m3 TWA	5 mg	5 mg/m3 TWA		g/m3 TWA	5 mg/m3 TWAEV	5 mg/m3 TWA
Calcium carbonate (471-34-1)	TWAs	Not established	Not (	Not established		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/m3 TWA (to dust); 5 mg/m3 TV (respirable fraction	WA	

## 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

## Eye/Face Skin/Body

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.

- Wear chemical splash goggles and face shield.
- 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. GLOVES: Nitrile, neoprene, and butyl rubber. 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.

# **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 NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

## **Section 9 - Physical and Chemical Properties**

## 9.1 Information on 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	No data available
Decomposition Temperature	170 to 180 C(338 to 356 F)	рН	Alkaline
Specific Gravity/Relative Density	No data available	Bulk Density	1 to 1.07 g/cm³
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
Flammability (solid, gas)	No data available		
Environmental			
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., Pool
chemicals. Acid or ammonia contamination will release toxic gases.

## 10.6 Hazardous decomposition products

Product slowly releases chlorine gas.

## Section 11 - Toxicological Information

## 11.1 Information on toxicological effects

		Components
Calcium chloride (0.1%)	10043- 52-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 1 g/kg
Calcium hydroxide (1% TO 3%)	1305- 62-0	Acute Toxicity: Ingestion/Oral-Rat LD50 • 7340 mg/kg; Irritation: Eye-Rabbit • 10 mg • Severe irritation
Calcium carbonate (1% TO 3%)	471-34- 1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6450 mg/kg; Irritation: 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	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3000 mg/kg; Irritation: Eye-Rabbit • 100 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 201.6 g/kg 6 Week(s)-Intermittent; Vascular:BP elevation not characterized in autonomic section; Mutagen: Unscheduled DNA synthesis • Ingestion/Oral-Rat • 16800 mg/kg 4 Week(s)-Continuous; Reproductive: Ingestion/Oral-Rat TDLo • 56400 mg/kg (5D pre-21D post); Reproductive Effects:Maternal Effects:Postpartum; Reproductive Effects:Effects on Newborn:Biochemical and metabolic
Pentasodium triphosphate (< 0.6%)	7758- 29-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • 3120 mg/kg; Behavioral:Somnolence (general depressed activity); Behavioral:Coma; Skin-Rabbit LD50 • >4640 mg/kg; Behavioral:Somnolence (general depressed activity); Lungs, Thorax, or Respiration:Dyspnea; Irritation: Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation
Calcium hypochlorite (65% TO 76%)	7778- 54-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 850 mg/kg

GHS Properties	Classification

Acute toxicity	EU/CLP • Acute Toxicity - Oral 4 - ATEmix (oral)= 1118 mg/kg OSHA HCS 2012 • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg UN GHS • Acute Toxicity - Oral 4 - ATEmix(oral)=1037 mg/kg
Aspiration Hazard	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Carcinogenicity	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Germ Cell Mutagenicity	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Skin corrosion/Irritation	EU/CLP • Skin Corrosion 1B  OSHA HCS 2012 • Skin Corrosion 1B  UN GHS • Skin Corrosion 1B
Skin sensitization	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
STOT-RE	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
STOT-SE	EU/CLP • No data available OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation UN GHS • Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation
Toxicity for Reproduction	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Respiratory sensitization	EU/CLP • No data available OSHA HCS 2012 • No data available UN GHS • No data available
Serious eye damage/Irritation	EU/CLP • No data available OSHA HCS 2012 • Serious Eye Damage 1 UN GHS • Serious Eye Damage 1

## **Potential Health Effects**

#### Inhalation

Acute (Immediate)

**Chronic (Delayed)** 

#### Skin

Acute (Immediate)

**Chronic (Delayed)** 

## Eye

Acute (Immediate)

**Chronic (Delayed)** 

Revision Date: 21/May/2015

- May cause corrosive burns irreversible damage. May cause respiratory irritation.
- Repeated or prolonged exposure to corrosive fumes may cause bronchial irritation with chronic cough.
- Causes severe skin burns.
- Repeated or prolonged exposure to corrosive materials will cause dermatitis.

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

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

#### Ingestion

# Acute (Immediate) Chronic (Delayed)

- Harmful or fatal if swallowed. May cause irreversible damage to mucous membranes.
- Repeated or prolonged exposure to corrosive materials or fumes may cause gastrointestinal distrubances.

#### Key to abbreviations

LD = Lethal Dose
TD = Toxic Dose

## **Section 12 - Ecological Information**

### 12.1 Toxicity

	Calcium Hypochlorite Tablets				
Dosage	Species	Duration	Results	Exposure Conditions	Comments
57-60 μg/L	Fish: Bluegill - Lepomis macrochirus	96 Hour(s)	NDA	Fresh water	Calcium hypochlorite
37 μg/L	Fish: Atlantic silverside - Menidia menidia	96 Hour(s)	LC50	Marine water	Calcium hypochlorite
0.073-0.079 μg/L	Crustacea: Water flea - Daphnia magna	48 Hour(s)	EC50	Fresh water	Calcium hypochlorite
1294600 μg/L	Fish: Bluegill - Lepomis macrochirus	96 Hour(s)	LC50	Fresh water	Sodium chloride
402600- 469200 μg/L	Crustacea: Water flea - Daphnia magna	48 Hour(s)	EC50	Fresh water	Sodium chloride
356 mL/kg	Fish: Guppy - Poecilia reticulata	96 Hour(s)	LC50	Marine water	Calcium hydroxide
56 mg/L	Fish: Guppy - Poecilia reticulata	96 Hour(s)	NOEC	Marine water	Calcium hydroxide

 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

Revision Date: 21/May/2015

• 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	NDA
TDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	NDA
IMO/IMDG	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1	II	Marine Pollutant
IATA/ICAO	UN2880	CALCIUM HYPOCHLORITE, HYDRATED	5.1,Marine	II	NDA

14.6 Special precautions for user

None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

	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
Magnesium	7439-95-4	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

or		
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
Pentasodium triphosphate	7758-29-4	Not Listed
Calcium hydroxide	1305-62-0	Е
		Uncontrolled product
Sodium chloride	7647-14-5	according to WHMIS
		classification criteria
Magnesium	7439-95-4	B4, B6
		Uncontrolled product
Calcium carbonate	471-34-1	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
Pentasodium triphosphate	7758-29-4	Not Listed
Calcium hydroxide	1305-62-0	1 %
Sodium chloride	7647-14-5	Not Listed
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed

Canada - CEPA - Priority Substances List
Calcium chloride

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
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed

## **United States**

J.S OSHA - Process Safety Management - Highly Hazardous 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
Magnesium	7439-95-4	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

10043-52-4

Not Listed

Pentasodium triphosphate	7758-29-4	Not Listed
Calcium hydroxide	1305-62-0	Not Listed
Sodium chloride	7647-14-5	Not Listed
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed
Calorati Carbonato	471 04 1	110t Liotod

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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	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

Magnesium	7439-95-4 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
Magnesium	7439-95-4 Not Listed
Calcium carbonate	471-34-1 Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing	a a
Calcium chloride	9 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
Magnesium	7439-95-4 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
Magnesium	7439-95-4 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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed

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
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed
U.S California - Proposition 65 - No Significant Risk Le	vels (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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	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
Magnesium	7439-95-4	Not Listed
Calcium carbonate	471-34-1	Not Listed

## **15.2 Chemical Safety Assessment**

• No Chemical Safety Assessment has been carried out.

## **Section 16 - Other Information**

## Relevant Phrases (code & full text)

H250 - Catches fire spontaneously if exposed to air

H260 - In contact with water releases flammable gases which may ignite spontaneously

H315 - Causes skin irritation

H318 - Causes serious eye damage H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

R15 - Contact with water liberates extremely flammable gases.

R17 - Spontaneously flammable in air.

R35 - Causes severé burns.

R36 - Irritating to eyes.

R36/38 - Irritating to eyes and skin.

R38 - Irritating to skin.

R41 - Risk of serious damage to eyes.

R52 - Harmful to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

- 21/May/2015
  - 21/May/2015
  - 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.

Last Revision Date
Preparation Date
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Key to abbreviations

NDA = No Data Available

Revision Date: 21/May/2015