

# AQUA SUPER SHOCK

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	AQUA SUPER SHOCK
<b>Other Means of Identification</b>	23068RAW
<b>Recommended Use</b>	Sanitizer and Oxidizer Water Treatment.
<b>Manufacturer</b>	Lawrason's, Inc, 460 Wyecroft Road, Oakville, Ontario, L6K 2G7, (905) 842-8300, www.Lawrasons.com
<b>Supplier Identifier</b>	Lawrason's, Inc, 460 Wyecroft Road, Oakville, Ontario, L6K 2G7, (905) 842-8300, www.Lawrasons.com
<b>Emergency Phone No.</b>	CANUTEC, 1-888-CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone
<b>SDS No.</b>	23068C26, 23068C87, 23068C92, 23068P15, 23068P75
<b>Date of Preparation</b>	February 01, 2017

## SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

### Classification

Oxidizing solid - Category 2; Acute toxicity (Oral) - Category 4; Acute toxicity (Dermal) - Category 5; Acute toxicity (Inhalation) - Category 4; Skin corrosion - Category 1A; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3

### Label Elements



Danger

### Hazard Statement(s):

May intensify fire; oxidizer.

Harmful if swallowed.

May be harmful in contact with skin.

Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

### Precautionary Statement(s):

Keep away from heat.

Wear protective gloves/eye protection/face protection.

Take any precaution to avoid mixing with combustibles.

Do not eat, drink or smoke when using this product.

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Wash hands and skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid breathing dust/fume/gas/mist/vapours/spray.

**Response:**

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
Wash contaminated clothing before reuse.  
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.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTRE or doctor.  
Collect spillage.

**Storage:**

Store away from other materials.  
Store locked up.  
Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

Dispose of contents and container in accordance with local, regional, national and international regulations.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Calcium Hypochlorite	7778-54-3	80.00-100		
Sodium chloride	7647-14-5	10.00-30.00		
Water	7732-18-5	5.00-10.00		
Calcium chloride	10043-52-4	1.00-5.00		
Calcium hydroxide	1305-62-0	1.00-5.00		
Calcium carbonate	471-34-1	1.00-5.00		
Calcium chlorate	10137-74-3	1.00-5.00		

**Notes**

The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

**First-aid Measures**

**Inhalation**

Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Remove source of exposure or move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Avoid mouth-to-mouth contact by using a barrier device.

**Skin Contact**

Avoid direct contact. Wear chemical protective clothing if necessary. Immediately rinse the contaminated area with lukewarm, gently flowing water for 15-30 minutes or until the product has cooled and solidified. DO NOT remove solidified material. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation or a rash occurs, get medical advice or attention.

**Eye Contact**

Avoid direct contact. Wear chemical protective gloves if necessary. Immediately rinse the contaminated eye(s) with

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lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Neutral saline solution may be used as soon as it is available. DO NOT INTERRUPT FLUSHING. If necessary, continue flushing during transport to hospital. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

#### **Ingestion**

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Avoid mouth-to-mouth contact by using a barrier device. Get medical advice or attention if you feel unwell or are concerned.

## **SECTION 5. FIRE-FIGHTING MEASURES**

### **Extinguishing Media**

#### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agents compatible with product and suitable for surrounding fire. Use flooding quantities of water spray or fog.

#### **Unsuitable Extinguishing Media**

DO NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents). DO NOT use carbon dioxide, or other agents that smother the flames.

### **Specific Hazards Arising from the Product**

Does not burn. Can ignite if strongly heated. Releases oxygen to create an oxygen-rich atmosphere. Will cause combustible materials to ignite more readily. Heating increases the release of toxic vapour.

In a fire, the following hazardous materials may be generated: corrosive chlorine; corrosive hydrogen chloride. Oxygen gas and calcium oxides.

### **Special Protective Equipment and Precautions for Fire-fighters**

Use extreme caution. Evacuate area. Fight fire from a protected, explosion-resistant location or maximum distance possible. Approach fire from upwind to avoid hazardous vapours or gases. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or explosive atmosphere. Oxidizer. Prevent contact with flammable and combustible materials.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

### **Personal Precautions, Protective Equipment, and Emergency Procedures**

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Eliminate all ignition sources if safe to do so.

### **Environmental Precautions**

It is good practice to prevent releases into the environment. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### **Methods and Materials for Containment and Cleaning Up**

Small spills or leaks: stop or reduce leak if safe to do so. Ventilate the area to prevent the gas from accumulating, especially in confined spaces. Collect using shovel/scoop or approved HEPA vacuum and place in a suitable container for disposal. Large spills or leaks: contact emergency services and manufacturer/supplier for advice.

## **SECTION 7. HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Wear personal protective equipment to avoid direct contact with this chemical. Do not get in eyes, on skin or on clothing. Do not swallow. Avoid breathing in this product. Wash hands thoroughly after handling this material.

### **Conditions for Safe Storage**

Store in an area that is: cool, dry, well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container. Store at temperatures not exceeding: 35°C/95°F.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Calcium Hypochlorite	Not established		Not established		Not established	
Sodium chloride	Not established		Not established		Not established	
Calcium chloride	Not established		15 mg/m3		Not established	
Calcium hydroxide	Not established		5 mg/m3		Not established	
Water	Not established		Not established			

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Ensure that eye stations and safety showers are proximal to the work-station location. Wear chemical protective clothing e.g. gloves, aprons, boots. Wear a chemical protective, full-body encapsulating suit and self-contained breathing apparatus (SCBA). Wash hands and face thoroughly after handling and before eating, drinking, smoking or using the toilet.

Suitable materials are: natural rubber, polyvinyl chloride.

#### Respiratory Protection

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective threshold limit value. If the oxygen content of the air is below acceptable limits, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	White fine powder.
Odour	Chlorine
Odour Threshold	~ 1.4 mg/m3
pH	10.5 - 11.5 (1% solution)
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not applicable
Evaporation Rate	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not applicable
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	Not applicable
Solubility	Soluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable

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<b>Decomposition Temperature</b>	170 - 180 °C (338 - 356 °F)
<b>Viscosity</b>	Not applicable (kinematic); Not applicable (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Solid
<b>Bulk Density</b>	0.80 kg/L

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Can undergo vigorous decomposition. Reacts vigorously with water to release a very toxic gas. Not sensitive to mechanical impact.

### Chemical Stability

Unstable under certain conditions - see Conditions to Avoid.

### Possibility of Hazardous Reactions

Reacts in the presence of heat. May cause a fire.

### Conditions to Avoid

High temperatures. High energy sources, e.g. welding arcs. Contact with combustible materials. Sunlight. Water, moisture or humidity. Temperatures above 35.0 °C (95.0 °F)

### Incompatible Materials

Increased risk of fire and explosion on contact with: ammonia, organic acids (e.g. acetic acid), inorganic acids (e.g. hydrofluoric acid), oxidizing agents (e.g. peroxides). Forms very toxic chemicals on contact with: water.

### Hazardous Decomposition Products

Corrosive chlorine.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Calcium Hypochlorite	2.04 mg/L (rat) (1-hour exposure)	850 mg/kg (rat)	> 2000 mg/kg (rabbit)
Sodium chloride	> 21000 mg/m <sup>3</sup> (rat)	3000 mg/kg (rat)	Not available
Calcium chloride	Not available	1126 mg/kg	2637 mg/kg
Calcium hydroxide	Not available	7340 mg/kg (rat)	Not available
Water		> 89840 mg/kg (rat)	

### Skin Corrosion/Irritation

Dry material causes moderate skin irritation. Wet material causes skin burns.

### Serious Eye Damage/Irritation

Causes serious eye damage.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Vapours and mist will irritate throat and respiratory system and cause coughing. May cause severe lung injury. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

#### Skin Absorption

Causes skin burns.

#### Ingestion

Harmful if swallowed. Causes digestive tract burns. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

### Aspiration Hazard

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May cause lung damage if aspirated based on existing animal tests and physical and chemical properties.

#### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

No information was located.

#### **Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

#### **Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
Calcium Hypochlorite	Not Listed	Not Listed	Not Listed	Not Listed
Sodium chloride	Not Listed	Not Listed	Not Listed	Not Listed
Calcium chloride	Not evaluated	Not evaluated	Not evaluated	Not evaluated
Calcium hydroxide	Not Listed	Not Listed	Not Listed	Not Listed

#### **Reproductive Toxicity**

##### **Development of Offspring**

Not known to harm the unborn child.

##### **Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

#### **Germ Cell Mutagenicity**

Not known to be a mutagen.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Studies were not located.

#### **Persistence and Degradability**

No information was located.

#### **Bioaccumulative Potential**

No information was located.

#### **Mobility in Soil**

No information was located.

#### **Other Adverse Effects**

There is no information available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

#### **Disposal Methods**

Dispose of contents and container in accordance with local, regional, national and international regulations. Store product for disposal as described under Storage in Section 7 of this safety data sheet. Do not reuse empty containers.

## **SECTION 14. TRANSPORT INFORMATION**

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	2880	Calcium hypochlorite, hydrated mixtures	5.1	II
US DOT	2880	Calcium hypochlorite, hydrated mixtures	5.1	II

**Environmental Hazards** Not applicable

#### **Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

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Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 3**    **Flammability - 0**                      **Instability - 1**

**SDS Prepared By**                Technical Manager

**Phone No.**                         905-842-8300

**Date of Preparation**            February 01, 2017

**Date of Last Revision**        June 01, 2018

**Key to Abbreviations**        IARC = International Agency for Research on Cancer

**References**                      CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). HSDB® database. US National Library of Medicine. Available from Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS).

**Additional Information** All information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations of mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product). To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither Lawrason's, Inc. nor any of its affiliates makes any warranty, express or implied, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. The user alone must finally determine suitability of any information or material for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. Lawrason's Inc. reserves the right to make additions, deletions or modifications to the information at any time without prior notification.

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