

# Aquatrol 360

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	<b>Aquatrol 360</b>
<b>Other Means of Identification</b>	Boiler Alkalinity Adjustment
<b>Other Identification</b>	Caustic Soda Solution
<b>Recommended Use</b>	Boiler Water Treatment.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Alliance Water Group Inc., 1 Yonge Street, Suite 1801, Toronto, ON, MSE 1W7, 416-306-2480
<b>Emergency Phone No.</b>	CANUTEC, 613-996-6666, 24 Hour Emergency Line
<b>Date of Preparation</b>	May 07, 2017

## SECTION 2. HAZARD IDENTIFICATION

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

### Classification

Corrosive to metals - Category 1; Skin corrosion - Category 1; Serious eye damage - Category 1

### Label Elements



Signal Word:

Danger

Hazard Statement(s):

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statement(s):

Prevention:

P234 Keep only in original packaging.

P260 Do not breathe dusts or mists.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P310 Immediately call a POISON CENTRE or doctor.

P363 Wash contaminated clothing before reuse.

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P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Sodium Hydroxide	1310-73-2	15-30	NaOH	

## 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. Keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

#### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. Immediately call a Poison Centre or doctor.

#### Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a Poison Centre or doctor.

#### 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. Immediately call a Poison Centre or doctor.

#### First-aid Comments

Get medical advice or attention if you feel unwell or are concerned. Some of the first-aid procedures recommended here require advanced first-aid training.

### Most Important Symptoms and Effects, Acute and Delayed

None known.

### Immediate Medical Attention and Special Treatment

#### Special Instructions

Not applicable.

#### Medical Conditions Aggravated by Exposure

None known.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

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### **Suitable Extinguishing Media**

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

### **Unsuitable Extinguishing Media**

Do not use water jet.

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

Does not burn. Can ignite if strongly heated.

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

Evacuate area. Fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours or gases. Do NOT apply water directly to spill. Knock down vapours or gases with water fog or fine water spray. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, sufficient oxygen. Dike and recover contaminated water for appropriate disposal. Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

Fire-fighters should enter area wearing specialized protective equipment. (Bunker Gear will not provide adequate protection.) a full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

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

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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Evacuate downwind locations. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. 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. Remove or isolate incompatible materials as well as other hazardous materials. Before entry, especially into confined areas, check atmosphere with an appropriate monitor.

### **Environmental Precautions**

Do not allow into any sewer, on the ground or into any waterway. 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**

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Small spills or leaks: stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. Cover the spill surface with the appropriate type of foam to reduce the release of vapour. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

Large spills or leaks: dike spilled product to prevent runoff. Knock down vapour with fog or fine water spray. Do not direct water at spill or source. Remove or recover liquid using pumps or vacuum equipment. Flush spill area. Dike and recover contaminated water for appropriate disposal. Get expert advice before treating the spilled product with other chemicals to make it less hazardous.

Store recovered product in suitable containers that are: tightly-covered, corrosion-resistant. Review Section 13 (Disposal Considerations) of this safety data sheet. Contact emergency services and manufacturer/supplier for advice.

### **Other Information**

Report spills to local health, safety and environmental authorities, as required.

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

### **Precautions for Safe Handling**

Obtain special instructions before use. Do not breathe in this product. Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Avoid generating vapours or mists. Prevent uncontrolled release of product. Avoid release to the environment. Immediately report leaks, spills or failures of the safety equipment (e.g. ventilation system). In the event of a spill or leak, exit the area immediately. If product is transferred to another container, ensure new container is suitable for the product. Prevent accidental contact with incompatible chemicals. Wear personal protective equipment to avoid direct contact with this chemical. Prevent contamination of surfaces that unprotected personnel may use. Use corrosion-resistant tools and equipment. See Section 10 (Stability and Reactivity) for suitable materials. Keep containers tightly closed when not in use or empty. Never reuse empty containers, even if they appear

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to be clean.

General hygiene considerations: immediately remove contaminated clothing using the method that minimizes exposure. Launder clothes before re-wearing. Inform laundry personnel of product hazard(s). Do not take contaminated clothing home. Properly dispose of any contaminated items, including shoes, that cannot be decontaminated. DO NOT re-use. See Section 13 (Disposal Considerations) of this safety data sheet.

#### Conditions for Safe Storage

Store in an area that is: well-ventilated, secure and separate from work areas, separate from incompatible materials (see Section 10: Stability and Reactivity). Store in the original, labelled, shipping container. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Store in corrosive resistant container with a resistant inner liner. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet. Comply with all applicable health and safety regulations, fire and building codes.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not available.

Consult local authorities for provincial or state exposure limits.

### Appropriate Engineering Controls

General ventilation is usually adequate. For large scale use of this product: use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

### Individual Protection Measures

#### Eye/Face Protection

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

#### Skin Protection

In case of an emergency (e.g. an uncontrolled release): wear a chemical splash suit and respiratory protection. Wear chemical protective clothing e.g. gloves, aprons, boots. Neoprene rubber, nitrile rubber, polyvinyl chloride.

#### Respiratory Protection

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Clear colourless liquid.
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	> 14.0
<b>Melting Point/Freezing Point</b>	Not applicable (melting); 10 °C (freezing)
<b>Initial Boiling Point/Range</b>	100 °C
<b>Flash Point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable (liquid).
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	18 mm Hg
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.28
<b>Solubility</b>	Soluble in water; Not available (in other liquids)

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<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable. Unstable under certain conditions - see Conditions to Avoid.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Prolonged exposure to high temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), metals (e.g. aluminum).

### Hazardous Decomposition Products

Flammable hydrogen gas.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information presented below is for the entire product, unless otherwise specified.

### Likely Routes of Exposure

Eye contact; ingestion; skin contact.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Sodium Hydroxide	Not applicable	2000 mg/kg (rat)	Not applicable

LC50: No information was located.

LD50 (Oral): >2000 mg/kg (Aquatrol 360)

LD50 (dermal): No information was located.

### Skin Corrosion/Irritation

Human experience and animal tests show skin corrosion. Contact can cause pain, redness, burns, and blistering. Permanent scarring can result.

### Serious Eye Damage/Irritation

Human experience and animal tests show serious eye damage. Contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result.

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

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

No information was located.

#### Ingestion

Can cause effects as described for skin contact. Causes severe irritation or burns to the mouth, throat and stomach.

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Permanent damage can result.

#### Aspiration Hazard

No information was located.

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

No information was located.

#### Respiratory and/or Skin Sensitization

No information was located.

#### Carcinogenicity

No information was located.

No information was located for: Aspiration Hazard, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## SECTION 12. ECOLOGICAL INFORMATION

This section is not required by WHMIS.

#### Ecotoxicity

No information was located.

##### Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Sodium Hydroxide	Not available	Not available	Not available	Not available

##### Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Sodium Hydroxide	Not available	Not available	Not available	Not available

#### 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

Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). Dispose of contents and container in accordance with local, regional, national and international regulations.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1824	SODIUM HYDROXIDE SOLUTION (Sodium Hydroxide)	8	II
US DOT	1824	SODIUM HYDROXIDE SOLUTION (Sodium Hydroxide)	8	II

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**Environmental Hazards** Not applicable  
**Special Precautions** Not applicable  
**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**  
Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

This section is not required by WHMIS.

#### Canada

##### WHMIS 1988 Classification



Class E

E - Corrosive

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

All ingredients are listed on the DSL or are not required to be listed.

#### USA

##### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

## SECTION 16. OTHER INFORMATION

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**Key to Abbreviations** NIOSH = National Institute for Occupational Safety and Health  
OSHA = US Occupational Safety and Health Administration  
IARC = International Agency for Research on Cancer  
ACGIH® = American Conference of Governmental Industrial Hygienists  
NDA = No Data Available.

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