

## MATERIAL SAFETY DATA SHEET

**CC-1302**

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

**Product Name:** CC – 1302

**Last Revision Date:** January 30, 2017

**Product Description:** Boiler Water Treatment – Aluminum Boilers

**Supplier:** **ControlChem Canada Limited**

4460 Harvester Road  
Burlington, Ontario L7L 4X2  
Tel: 905-319-2234 Fax: 905-319-0438

**Emergency Numbers:**

1. **ControlChem Canada Ltd.** Emergency Number: 1-866-882-2436
2. In the event of an emergency involving Transportation of Dangerous Goods call **CANUTEC** at: 613-996-6666 or **\*666 on a cellular phone.**
3. Call your local **Emergency Services**
4. Call your **Facility/Plant Management**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	%RANGE	CEV	LD50 (mg/Kg)
Phosphoric Acid	7664-38-2	14-16	0.1ppm	1530 (oral-rat)

The other components of this product are not considered hazardous under WHMIS regulations.

### 3. HAZARDS IDENTIFICATION

#### POTENTIAL HEALTH EFFECTS:

Skin Contact:	Corrosive! Burns (chemical) can occur if not promptly removed. Concentrated solutions may cause pain and deep and severe burns to the skin. Prolonged and repeated exposure to dilute solutions often causes irritation, redness, pain and drying and cracking of the skin.
Eye Contact:	Extremely corrosive! This product causes corneal scarring and clouding. Glaucoma, cataracts and permanent blindness may occur. Toxic effects may be delayed.
Inhalation:	Corrosive! Product may cause severe irritation to the nose, throat and respiratory tract.
Ingestion:	Corrosive! This product causes severe burning and pain in the mouth, throat and abdomen. Vomiting, diarrhea and perforation of the esophagus and stomach lining may occur.

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## 4. FIRST AID MEASURES

- Skin contact:** Corrosive. Prompt removal of the material on the skin is essential. Remove all contaminated clothing and wash exposed areas with water for about 30 to 60 minutes. Immerse the exposed part immediately in ice water to relieve pain and to prevent swelling and blistering. Place cold packs, ice or wet cloths on the burned area if immersion is not possible. Cover exposed part with clean, preferably sterile, lint-free dressing. Obtain medical attention IMMEDIATELY and monitor breathing and treat for shock for severe exposure.
- Eye contact:** Corrosive. Immediately and thoroughly flush eyes with water for 30 minutes. Do not contaminate unaffected eye. Obtain medical attention IMMEDIATELY. Do not transport victim until the recommended flushing period is completed unless flushing can be continued during transport.
- Inhalation:** Remove victim from hazard. Rest and keep warm. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing and no pulse. Obtain immediate medical help.
- Ingestion:** Corrosive. Do not induce vomiting. Give conscious patient fluids. Obtain medical attention IMMEDIATELY.  
Note: If victim is unconscious never induce vomiting or give fluids. Place victim in a stable side position and keep warm.

## 5. FIRE-FIGHTING MEASURES

- Conditions of Flammability:** Not flammable.
- Suitable extinguishing media:** Use extinguishing agent suitable for surrounding fire: water, water spray, foam, dry powder, CO<sub>2</sub>.
- Special fire-fighting precautions:** Wear full protective equipment including a self-contained breathing apparatus
- Flash Point (°C):** Not available
- Auto Ignition Temperature (°C):** Not available
- Flammable Limits in Air % by Volume:** Not available
- Explosion Data:** Not available
- Sensitivity to Static Discharges:** Not sensitive
- Hazardous Combustion Products:** Thermal decomposition products are toxic and may include hydrogen, phosphine, oxides of phosphorus and irritating gases.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Wear respirator, protective clothing and gloves.
- Environmental precautions:** Do not contaminate water.
- Methods for cleaning up:** Dam to prevent spreading. Neutralize with lime slurry, soda ash or limestone. Soak up with absorbent material and transfer to an appropriate container for disposal. Rinse area with water.

## 7. HANDLING AND STORAGE

- Handling:** Handle in accordance with good industrial hygiene and safety practices. When diluting, add this material to water in small amounts to avoid spattering. Never add water to this material. When adding this product to water stir constantly to avoid concentrations of the product at the end of the mix vessel. Such

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concentrations of the product may result in a violent exothermic reaction. Use only with adequate ventilation and avoid breathing aerosols (vapours or mists). Avoid contact with eyes, skin or clothing.

## *Storage*

Store in a cool, dry well ventilated area.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### *Engineering controls:*

Local exhaust recommended.

### *Respiratory protection:*

A NIOSH/MSHA full face piece air-purifying respirator equipped with gas, dust, mist, fume cartridges for concentrations up to 10 mg/m<sup>3</sup> Phosphoric Acid.

### *Eye protection:*

Wear chemical splash proof goggles and shield.

### *Skin protection:*

Wear work pants, long sleeve work shirt and impervious apron and rubber gloves. Discard contaminated gloves after use.

### *Hygiene measures:*

Wash hands before breaks and at the end of the workday. Handle in accordance with good industrial hygiene and safety practice. Locate safety shower and eyewash stations close to handling area.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### *Appearance/Odour:*

Clear to hazy

### *Physical State:*

Liquid

### *Odor Threshold:*

No data

### *Specific Gravity:*

1.1-1.3

### *pH:*

less than 2

### *Solubility in Water:*

Complete

### *Freezing Point (°C):*

No data

### *Boiling Point (°C):*

No data

### *Vapor Pressure (mmHg):*

No data

### *Vapor Density (Air=1):*

No data

### *Evaporation Rate:*

No data

### *Coeff. Of Water/Oil:*

No data

## **10. STABILITY AND REACTIVITY**

### *Stability:*

Product is stable.

### *Materials to avoid:*

Liberates flammable hydrogen gas when reacting with chlorides and stainless steel. Reacts violently with sodium tetrahydroborate, and reacts exothermically with aldehydes, amines, amides, alcohols, glycols, azo compounds, carbamates, esters, caustics, phenols/cresols, ketones, organophosphates, epoxides and cyanides. Forms explosive mixtures with nitromethane.

### *Hazardous decomposition products:*

Oxides of phosphorus.

## **11. TOXICOLOGICAL INFORMATION**

### *Exposure Limits of Material*

### *LC 50 of Material, Species & Route:*

Not available

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<i>LD50 of Material, Species &amp; Route:</i>	See Section 2
<i>Carcinogenicity of Material:</i>	Not available
<i>Reproductive Effects:</i>	Not available
<i>Irritancy of Material:</i>	See Section 3
<i>Sensitizing Capability of Material:</i>	Not available
<i>Synergistic Materials:</i>	Not available

## 12. ECOLOGICAL INFORMATION

Not available

## 13. DISPOSAL CONSIDERATIONS

<i>Waste Disposal</i>	All disposals must be made in accordance with applicable government regulations only. Under no conditions is any product to be released into the natural environment (ie. air, water, ground).
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## 14. TRANSPORT INFORMATION

<i>T.D.G. Classification:</i>	PHOSPHORIC ACID SOLUTION UN 1805, Class 8, Packing Group III
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<i>Special Shipping Instructions:</i>	None
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## 15. REGULATORY INFORMATION

WHMIS Classification:	Class E; Corrosive
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HMIS Ratings:	Health: 3 Flammability: 0, Reactivity: 1, Personal Protection: X
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## 16. OTHER INFORMATION

Reference: Supplier Safety Data Sheet

THIS MATERIAL SAFETY DATA SHEET IS OFFERED FOR YOUR INFORMATION, CONSIDERATION AND INVESTIGATION AS REQUIRED BY FEDERAL HAZARDOUS PRODUCTS ACT AND RELATED LEGISLATION. THE INFORMATION IS BELIEVED TO BE ACCURATE BUT CONTROL CHEM CANADA LTD., PROVIDES NO WARRANTIES, EITHER EXPRESSED OR IMPLIED. USER ASSUMES ALL RISK TO PERSONS, PROPERTY AND ENVIRONMENT THROUGH USE OR MISUSE. ALL PRODUCT WARRANTIES ARE LIMITED TO THE REPLACEMENT VALUE OF THE PRODUCT.