

## 1: Identification

**Product Identifier** affresh® Ice Machine Cleaner  
**Other means of identification** PTN: 4396808  
**Product Use** Remove scale from 50lb standalone ice machines  
**Company** Whirlpool Corporation  
 2000 N. M-63  
 Benton Harbor, MI 49022

**Telephone** 1-800-643-0961 (USA)  
 1-888-253-2668 (CANADA)

**For Chemical Emergency  
 Spill, Leak, Fire, Exposure, or Accident  
 Call  
 CHEMTREC Day or Night**

**Within USA and Canada: 1-800-424-9300  
 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)**

## 2: Hazard Identification

**Hazard Classification** Corrosive to Eyes Category 1, Corrosive to Skin Category 1  
**Signal Word** Danger  
**Hazard Statements(s)** Corrosive to eyes and skin.  
**Precautionary Statement(s)** Avoid contact with skin and eyes.  
**Hazards not Otherwise Classified** ---  
**Ingredient with unknown acute toxicity** ---



## 3: Composition/Information on Ingredients

Trade Secret?	Common Name and synonyms	CAS	Percent
	Phosphoric Acid	7664-38-2	7.5
	Citric Acid	77-92-9	2
*Exact percentage withheld as Trade Secret			

#### 4: First Aid Measures

<b>Eye Contact</b>	Cause eye damage. Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
<b>Skin Contact</b>	Cause skin damage. Wash skin with soap and water. In the case of skin irritation or
<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapors or decomposition
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Give one to two glasses of water and seek the advice of
<b>Indication of</b>	Treat symptomatically.

#### 5: Fire-Fighting Measures

<b>Suitable Extinguishing Media</b>	Use existing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable Extinguishing Media</b>	None Known
<b>Specific Hazards</b>	Produces Carbon Oxides when combusts.
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA-NIOSH (approved or equivalent) and full protective gear.

#### 6: Accidental Release Measures

<b>Personal Precautions, protective equipment and emergency procedures</b>	Avoid contact with eyes. Use personal protective equipment as required.
<b>Methods and Materials for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Cleanup Procedures</b>	Dam up. Soak up with inert absorbent material. Keep in suitable location and closed containers for disposal.

#### 7: Handling and Storage

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes.
<b>Storage</b>	Keep in properly labeled containers.

#### 8: Exposure Controls/Personal Protection

##### Exposure Guidelines

**Engineering Controls** Showers, Eyewash Stations

##### Personal Protective Equipment

**Eye/Face Protection** Chemical tight goggles.  
**Skin and Body Protection** Impervious gloves.  
**Respiratory Protection** Respiratory protection is normally not needed if controls are adequate.  
**Special requirements for PPE**

## 9: Physical and Chemical Properties

<b>Appearance</b>	Liquid	<b>Flammability Limits</b>	No information available
<b>Odor</b>	None	<b>Vapor pressure</b>	No information available
<b>Odor Threshold</b>	No information available	<b>Vapor density</b>	No information available
<b>pH</b>	~1.5	<b>Relative density</b>	No information available
<b>Melting Point/Freezing Point</b>	No information available	<b>Solubility(ies)</b>	No information available
<b>Initial Boiling Point and Range</b>	No information available	<b>Partition Coefficient: n-octanol/water</b>	No information available
<b>Flash point</b>	>180° F	<b>Auto-ignition temperature</b>	No information available
<b>Evaporation Rate</b>	No information available	<b>Decomposition temperature</b>	No information available
<b>Flammability (solid, gas)</b>	No information available	<b>Viscosity</b>	No information available

## 10: Stability and Reactivity

### Reactivity

**Specific Test Data** No data available.

### Chemical Stability

**Stability** Stable under recommended storage conditions.  
**Stabilizers** No stabilizers needed to maintain chemical stability.  
**Safety Issues** None Known

### Other

**Hazardous Reactions** Hazardous polymerization does not occur.  
**Conditions to Avoid** Do not mix with other household chemicals.  
**Classes of Incompatible Hazardous** Strong oxidizing agents.  
Carbon oxides.

## 11: Toxicological Information

### Information on likely routes of exposure

<b>Production Information</b>	
<b>Inhalation</b>	Specific test data for mixture is not available
<b>Eye Contact</b>	Specific test data for mixture is not available
<b>Skin Contact</b>	Specific test data for mixture is not available
<b>Ingestion</b>	Specific test data for mixture is not available
<b>Toxicological Symptoms</b>	None known
<b>Mutagenic Affects</b>	None known
<b>Reproductive Toxicity</b>	No information available
<b>STOT- single exposure</b>	None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.
<b>STOT – repeated exposure</b>	None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.
<b>Chronic Toxicity</b>	None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.
<b>Numerical Measures of Toxicity</b>	12,707 mg/kg (est.) by A.1.3.6 of 2012 OSHA Hazard Communication Standard and available information

### Acute Toxicity

#### **Product Information**

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 inhalation</b>
Citric Acid	3000 mg/kg (mouse)	-	-
Phosphoric Acid	1530 mg/kg (rat)	2740 mg/kg (rabbit)	-

### Chronic Toxicity

## 12: Ecological Information

The environmental impact of this product has not been fully investigated.

## 13: Disposal Considerations

**Waste Disposal Methods** Dispose of container and unused contents in accordance with federal, state, and local requirements.

**Contaminated Packaging** Do not reuse empty containers.

#### 14: Transport Information

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

**DOT**                                      **UN 3264 – Corrosive Liquid, acidic, inorganic, n.o.s. (phosphoric acid), class 8, pg iii, limited quantity**

#### 15: Regulatory Information

**TSCA**                                      Complies

**DSL**                                        All components are listed on either the DSL or NDSL

#### U.S. Federal Regulations

##### Sara 313

This product contains 5-10% Phosphoric Acid CAS #7664-38-2 which is subject to the reporting requirements of Section 313, Title III of SARA, Part 372.

##### SARA 311/312 Hazard Categories

<b>Acute Health Hazard</b>	<b>Yes</b>
<b>Chronic Health Hazard</b>	<b>No</b>
<b>Fire Hazard</b>	<b>No</b>
<b>Sudden Release of Pressure Hazard</b>	<b>No</b>
<b>Reactive Hazard</b>	<b>No</b>

#### 16: Other Information

<b>Issuing Date</b>	<b>3/17/15</b>
<b>Last Change</b>	<b>Msds to SDS, numerical toxicity</b>

##### **Disclaimer**

The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with other material or in any process, unless specified in the text.