1: Identification

Product Identifier affresh® ice machine cleaner (phosphate free)
Other means of identification PTN: W11179302
Product Use Remove scale from 50lb standalone ice machines
Manufacturer 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.
Hazard not Otherwise Classified ---
Ingredient with unknown acute toxicity ---

3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Trade Secret?</th>
<th>Common Name and synonyms</th>
<th>CAS</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sodium Bisulphate</td>
<td>7681-38-1</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>Citric Acid</td>
<td>77-92-9</td>
<td>2</td>
</tr>
</tbody>
</table>

*Exact percentage withheld as Trade Secret
4: First Aid Measures

Eye Contact
Causes eye damage. Rinse thoroughly with plenty of water, also under the eyelids for at least 15 minutes. If symptoms persist, call a physician.

Skin Contact
Causes skin damage. Immediately take off clothing. Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Inhalation
Move to fresh air in case of accidental inhalation of vapors or decomposition products. If symptoms persist, call a physician.

Ingestion
DO NOT INDUCE VOMITING. Give one to two glasses of water and seek the advice of medical personnel or a poison control center. Never give anything by mouth to an unconscious person. Prevent aspiration of vomit.

Most important symptoms/effects, acute and delayed.
Burning pain and corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment if necessary.
Treat symptomatically.

5: Fire-Fighting Measures

Suitable Extinguishing Media
Use existing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
None Known

Specific Hazards
Produces Carbon Oxides when combusts.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA-NIOSH (approved or equivalent) and full protective gear.

6: Accidental Release Measures

Personal Precautions, protective equipment and emergency procedures
Avoid contact with eyes. Use personal protective equipment as required.

Methods and Materials for Containment
Prevent further leakage or spillage if safe to do so.

Cleanup Procedures
Dam up. Soak up with inert absorbent material. Keep in suitable location and closed containers for disposal.

7: Handling and Storage

Handling
Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Do not breathe in vapor of mist. Wear appropriate personal protective equipment.

Storage
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>No information available</td>
</tr>
<tr>
<td>pH</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial Boiling Point and Range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid,gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limits</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition Coefficient: n-octanol/water</td>
<td>No information available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
</tbody>
</table>

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 Materials**  Strong oxidizing agents.

**Hazardous Decomposition Products**  None known.

11: **Toxicological Information**

**Information on likely routes of exposure**

<table>
<thead>
<tr>
<th>Production Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Inhalation</strong></td>
<td>Specific test data for mixture is not available</td>
</tr>
<tr>
<td><strong>Eye Contact</strong></td>
<td>Specific test data for mixture is not available</td>
</tr>
<tr>
<td><strong>Skin Contact</strong></td>
<td>Specific test data for mixture is not available</td>
</tr>
<tr>
<td><strong>Ingestion</strong></td>
<td>Specific test data for mixture is not available</td>
</tr>
<tr>
<td><strong>Toxicological Symptoms</strong></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Mutagenic Affects</strong></td>
<td>None known</td>
</tr>
<tr>
<td><strong>Reproductive Toxicity</strong></td>
<td>No information available</td>
</tr>
<tr>
<td><strong>STOT- single exposure</strong></td>
<td>None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.</td>
</tr>
<tr>
<td><strong>STOT – repeated exposure</strong></td>
<td>None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.</td>
</tr>
<tr>
<td><strong>Chronic Toxicity</strong></td>
<td>None expected based on classification criteria from 2012 OSHA Hazard Communication Standard and available information.</td>
</tr>
<tr>
<td><strong>Numerical Measures of Toxicity</strong></td>
<td>23,595 mg/kg (est.) by A.1.3.6 of 2012 OSHA Hazard Communication Standard and available information</td>
</tr>
</tbody>
</table>

12: **Ecological Information**

The environmental impact of this product has not been fully investigated.
13: Disposal Considerations

**Waste Disposal**
- 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. (Sodium Bisulfate, Citric Acid Mixture),
- 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**
- No

**SARA 311/312 Hazard Categories**

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

16: Other Information

<table>
<thead>
<tr>
<th>Information</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issuing Date</td>
<td>9/15/17</td>
</tr>
<tr>
<td>Last Change</td>
<td>Initial Release</td>
</tr>
</tbody>
</table>

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.