



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 Statement(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
	Sodium Bisulphate	7681-38-1	10
	Citric Acid	77-92-9	2
*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

Appearance	Liquid	Flammability Limits	No information available
Odor	None	Vapor pressure	No information available
Odor Threshold	No information available	Vapor density	No information available
pH	<1	Relative density	No information available
Melting Point/Freezing Point	No information available	Solubility(ies)	No information available
Initial Boiling Point and Range	No information available	Partition Coefficient: n-octanol/water	No information available
Flash point	Not determined	Auto-ignition temperature	No information available
Evaporation Rate	No information available	Decomposition temperature	No information available
Flammability (solid,gas)	No information available	Viscosity	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 Materials	Strong oxidizing agents.
Hazardous Decomposition Products	None known.

11: Toxicological Information

Information on likely routes of exposure

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

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 inhalation
Citric Acid	3000 mg/kg (mouse)	-	-
Sodium Bisulfate	2800 mg/kg (rat)	-	-

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. (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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

16: Other Information

Issuing Date	9/15/17
Last Change	Initial Release

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.