

**1: Identification**

**Product Identifier** affresh<sup>®</sup> stainless steel brightener  
**Other means of identification** PTN: W10252111  
**Product Use** Removes rust and yellowing on stainless steel caused by excessive heat  
**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 Cat 1  
**Signal Word** Danger  
**Hazard Statements(s)** Corrosive to eyes. Corrosive to Metals.  
**Precautionary Statement(s)** Avoid contact with eyes.  
**Hazards not Otherwise Classified** ---  
**Ingredient with unknown acute toxicity** 1% of formulation is ingredients of unknown toxicity



**3: Composition/Information on Ingredients**

Trade Secret?	Common Name and synonyms	CAS	Percent
Trade Secret	Urea Monohydrochloride	506-89-8	<5
Trade Secret	C14-C18 Alkyl Amine, Ethoxylated	68155-39-5	<2
Trade Secret	Non-hazardous and other ingredients below reportable levels	Trade Secret	

\*Exact percentage withheld as Trade Secret

#### 4: First Aid Measures

<b>Eye Contact</b>	Causes severe eye irritation. Contains urea monohydrochloride, which is has been found to be corrosive to eyes. Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses and continue to rinse eyes. Seek medical attention if irritation persists..
<b>Skin Contact</b>	May cause skin irritation. (Contains urea monohydrochloride, which is defined as non-corrosive to skin in accordance with the U.S. OSHA's Hazard Communication Standard, DOT hazardous materials regulations, Canada's WHMIS regulations and TDG regulations. Classified as a mild skin irritant as per the 1992 OECD Guideline for Testing of Chemicals, Number 404. "Acute Dermal Irritation/Corrosion."). Wash material off skin with plenty of soap and water. If redness, itching, or burning sensation develops, get medical attention. Remove contaminated clothing and launder before reuse.
<b>Inhalation</b>	Move victim to get fresh air. If cough or other respiratory symptoms develop, consult medical personnel.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. Give 3-4 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.
<b>Most important symptoms/effects, acute and delayed.</b>	None known.
<b>Indication of immediate medical attention and special treatment if necessary.</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

**Occupational Exposure Limits** None.

**Engineering Controls** Showers, Eyewash Stations

### Personal Protective Equipment

**Eye/Face Protection**

Chemical resistant goggles or glasses.

**Skin and Body Protection**

None expected; chemical resistant gloves if desired.

**Respiratory Protection**

No protective equipment is needed under normal use conditions.

**Special requirements for PPE**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9: Physical and Chemical Properties

<b>Appearance</b>	Green Liquid	<b>Flammability Limits</b>	No information available
<b>Odor</b>	Wintergreen	<b>Vapor pressure</b>	No information available
<b>Odor Threshold</b>	No information available	<b>Vapor density</b>	No information available
<b>pH</b>	Approx. 1	<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

<b>Stability</b>	Stable under recommended storage conditions.
<b>Stabilizers</b>	No stabilizers needed to maintain chemical stability.
<b>Safety Issues</b>	None Known

## Other

<b>Hazardous Reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Strong oxidizing agents. Hypochlorites. Alkaline materials.
<b>Classes of Incompatible Materials</b>	
<b>Hazardous Decomposition Products</b>	Carbon oxides.

## 11: Toxicological Information

### Information on likely routes of exposure

<b>Production Information</b>	Product does not present an acute toxicity hazard
<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>	ATEmix 37,363 mg/kg This formulation contains 1% of ingredients with unknown toxicity.

### Acute Toxicity

#### **Product Information**

<b>Chemical Name</b>	<b>LD50 Oral</b>	<b>LD50 Dermal</b>	<b>LC50 inhalation</b>
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Urea Monohydrochloride	1120.9 mg/kg (rat)	-	-
C14-C18 Alkyl Amine, Ethoxylated	-	-	-

**Chronic Toxicity**

**12: Ecological Information**

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

**13: Disposal Considerations**

**Waste Disposal Methods**                      Dispose of waste in accordance with Local, Federal, and Provincial Environmental Regulations.  
**Contaminated Packaging**                      Do not reuse empty containers.

**14: Transport Information**

**\*Note: This material contains Urea Monohydrochloride which is corrosive to Aluminum only. Non-corrosive to skin and mild steel. Consult 49CFR 173.154(d) for more information.**

**DOT**    Not regulated.  
**IATA**    Regulated Material.

   Hazard class:                      8  
   Hazard Subclass:                N/A  
   UN Number:                      3265  
   Proper Shipping Name:        Corrosive liquid, acidic, organic, nos (mixture, Urea Monohydrochloride)  
   Packing Group:                      III

**IMDG**    Regulated Material.  
   Hazard class:                      8  
   Hazard Subclass:                N/A  
   UN Number:                      3265  
   Proper Shipping Name:        Corrosive liquid, acidic, organic, nos (mixture, Urea Monohydrochloride)  
   Packing Group:                      III

**TDG**    Regulated Material.  
   Hazard class:                      8  
   Hazard Subclass:                N/A  
   UN Number:                      3265  
   Proper Shipping Name:        Corrosive liquid, acidic, organic, nos (mixture, Urea Monohydrochloride)  
   Packing Group:                      III

**15: Regulatory Information**

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

**U.S. Federal Regulations**

**Sara 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	Cas No	Weight %	SARA 313 Threshold Values
Diethylene glycol monobutyl ether	112-34-5	Trade Secret	1.0

**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

**Clean Water Act**

This product does not contain any substances as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level to releases of this material.

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

- 1,4 Dioxane 123-91-7
- Ethylene Oxide 75-21-8

Calculated maximum concentration 8.89E-6 (88.9 ppb)

**16: Other Information**

<b>Issuing Date</b>	<b>9/6/17</b>
<b>Last Change</b>	<b>Updated Prop 65 Section</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.