

1: Identification

Product Identifier affresh® 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

Eye Contact	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..
Skin Contact	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.
Inhalation	Move victim to get fresh air. If cough or other respiratory symptoms develop, consult medical personnel.
Ingestion	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.
Most important symptoms/effects, acute and delayed.	None known.
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 and eyes.
Storage	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

Appearance	Green Liquid	Flammability Limits	No information available
Odor	Wintergreen	Vapor pressure	No information available
Odor Threshold	No information available	Vapor density	No information available
pH	Approx. 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	>180° F	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	Strong oxidizing agents. Hypochlorites. Alkaline materials.
Classes of Incompatible Materials	
Hazardous Decomposition Products	Carbon oxides.

11: Toxicological Information

Information on likely routes of exposure

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

Acute Toxicity

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 inhalation
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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

Issuing Date	9/6/17
Last Change	Updated Prop 65 Section

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.