




Material Safety Data Sheet

NFPA	HMIS	PPE							
	<table border="1"><tr><td>Health Hazard</td><td>2</td></tr><tr><td>Fire Hazard</td><td>0</td></tr><tr><td>Reactivity</td><td>1</td></tr></table>	Health Hazard	2	Fire Hazard	0	Reactivity	1		
Health Hazard	2								
Fire Hazard	0								
Reactivity	1								

Revision Date 04/03/2012

Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Rust Flush® Bathroom and Kitchen Cleaner

Recommended Use Cleaning Agent

Supplier Address

Whink Products Company
PO Box 230
1901 15th Ave., Eldora, IA, 50627
United States of America
Phone: 641.939.2353 Fax: 641.939.2485
Emergency Phone: 800.229.6036 CHEMTREC: 800.424.9300

Company Emergency Phone Number 800.321.9065

2. HAZARDS IDENTIFICATION

Emergency Overview

Irritating to eyes. May scratch eyes.
May cause redness and burning to eyes.
Prolonged contact with skin may cause irritation and dryness.
Harmful if ingested.

Appearance Colorless – Light Amber

Physical State Liquid

Odor Vinegar - Acrid

Potential Health Effects

Principle Routes of Exposure Eyes, Skin, Inhalation and Ingestion

Acute Toxicity

Eyes

Avoid contact with eyes. Risk of serious damage to eyes. May cause burns. Severely irritating to eyes.

Skin

May cause burn to skin.

Inhalation

Dry form of product may cause irritation to the respiratory tract.

Ingestion

May be harmful if ingested. May Cause Burns to Mouth.

Environmental Hazard

See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Sulfamic Acid	5329-14-6	8.00-12.00
Hydroxyacetic Acid	79-14-1	0.50 – 1.00

4. FIRST AID MEASURES

General Advice	Call 800.229.6036 or emergency medical service. Remove and isolate contaminated clothing and shoes.
Eye Contact	In case of contact with eyes, remove contacts if needed, immediately flush eyes with running water for at least 20 minutes. Repeat as needed. Seek medical assistance if irritation continues.
Skin Contact	Avoid spreading material on unaffected skin. Remove contaminated clothing. Wash off immediately with plenty of water for 15-20 minutes. If Irritation or burning occurs, seek medical attention immediately.
Inhalation	Move injured party to fresh air. Apply artificial respiration if injured party is not breathing. Administer oxygen if breathing is difficult. Get Medical Attention Immediately!
Ingestion	Do not induce vomiting. Rinse mouth. Drink large amounts of water or milk Only. If vomiting occurs, give additional amounts of water once stopped. Seek Medical Attention.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not Considered a fire hazard. Non-combustible, substance itself does not burn but may decompose upon heating to produce oxygen, corrosive and/or toxic fumes. Containers may rupture due to gas build-up when heated.
Flash Point	Not Flammable.
Suitable Extinguishing Media	Water, Foam, Dry Chemical, Carbon Dioxide. Use appropriate media for surrounding fire.
Hazardous Combustion Products	Sulfur oxides, Sodium Oxides, Carbon Dioxide, Corrosive Amines, Ammonia Compounds
Explosion Data	
Sensitivity to mechanical impact	Not sensitive
Sensitivity to static discharge	Not sensitive

Protective Equipment and Precautions for Firefighters In the event of a fire wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Wear full protective clothing.

National Fire Protection Association (NFPA) Ratings: This information is intended solely for the use of individuals trained in the NFPA system.
Health Hazard 2 Flammability 0 Stability 0 Physical and Chemical Hazards N/A Other: N/A

6. ACCIDENTAL RELEASE MEASURES

Methods for Containment Always wear Personal Protective Equipment. Use sand, or pigs to dike area. Keep out of sewer

Methods for Cleaning Up Put into approved disposal container.

Other Information Absorb residue on clay, vermiculite or other inert substance and package in a suitable container for disposal.

7. HANDLING AND STORAGE

Handling Always wear recommended Personal Protective Equipment. Use only with adequate ventilation. Avoid contact with skin, and eyes.

Storage Store only in the original container. Store in cool, well-ventilated area. Do not mix with chlorine, bases or organic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does contain a hazardous material with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures Showers – quick-drench
Eyewash stations
Ventilation systems – sufficient to reduce vapor and mists below permissible TLV levels.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety glasses with side shields.

Skin and Body Protection Wear Chemical Resistant Gloves.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

Hygiene Measures When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless	Odor	Vinegar
Odor Threshold	No information available	Physical State	Liquid
pH (1% solution)	< 3.0	Autoignition Temperature	No information available.
Flash Point	No information available.	Boiling Point/Range	>212°F
Decomposition Temperature	No information available.	Explosion Limits	No information available.
Melting Point/Range	No information available.	Solubility	Water
Flammability Limits in Air	No information available.	Vapor Pressure	Same as Water
Water Solubility	Disperses	VOC Content	Not applicable.
Evaporation Rate	No data available.	Partition Coefficient (n-octanol/water)	No data available.
Vapor Density	No data available.		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Incompatible Products	Bases, organic materials, oxidizers, metals and open flame.
Conditions to Avoid	Exposure to moisture and air for long periods of time.
Hazardous Decomposition Products	Corrosive Amines, Carbon Monoxide, Sulfur Oxides, Sodium Oxides, Hydrogen
Hazardous Reactions	N/A
Hazardous Polymerization	Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure Eye, Mouth, Nasal and Mucous Membrane irritation. Burning of Skin, Mouth, and Eyes.

Acute Effects

Eyes	May cause irritation and scratching of eyes. May cause burns.
Skin	May cause irritation and dryness. May cause burns.
Inhalation	May cause irritation of respiratory tract and mucous membranes. May cause burns.
Ingestion	Harmful or fatal if swallowed. Ingestion may cause burning to gastrointestinal tract.

Target Organ Effects N/A

Chronic Toxicity Burning to the gastrointestinal system. Burning to Skin and Eyes.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Acute Toxicity Values Oral LD₅₀ (Rat) = Not Determined Dermal LD₅₀ (Rabbit) = Not Determined Inhalation LC₅₀ (Rat) = Not Determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components of this product have been found to be harmful to aquatic organisms; however the environmental impact of this product has not been fully investigated

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Dispose of in accordance with local regulations

California Hazardous Waste Codes 791

This product does not contain any substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
N/A	N/A

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Limited Quantity
Hazard Class	Limited Quantity
Description	Limited Quantity
Proper Shipping Name	Corrosive Liquid, n.o.s.
Hazard Class	8
UN-No	UN 1760
Packing Group	II
Description	UN 1760 Corrosive Liquid, n.o.s. , 8, II
International	See Specific Country for proper identification

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15. REGULATORY INFORMATION

International Inventories

TSCA Complies

U.S. Federal Regulations**SARA 313**

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

SARA 311/312 Hazard Categories

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

Clean Water Act

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

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990

CERCLA

This material, as supplied, does contain a substance 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 pertaining to releases of this material

U.S. State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Florida	Pennsylvania	Minnesota	California
Sulfamic Acid	N/A	X	N/A	N/A	N/A	N/A

International Regulations

See Specific Country for Regulations required.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

E Corrosive material



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16. OTHER INFORMATION

Revision Date 04/03/2012

Revision Note Third Revision

Prepared By:

Manufacturer's Technical Services Department

Disclaimer

The information provided on this MSDS 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 any other material or in any process, unless specified in the text.

End of MSDS

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