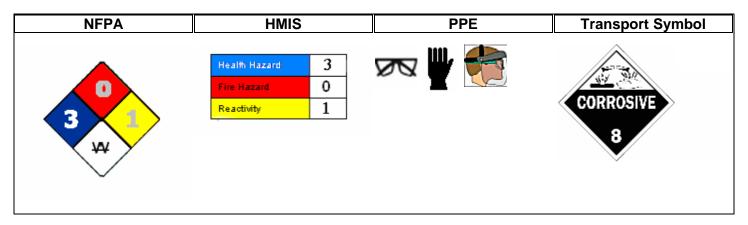
Material Safety Data Sheet



Issuing Date 10/06/2008 Revision Date 10/06/2008 Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Rust Stain Remover

Recommended Use Rust Remover

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

Very toxic by inhalation, in contact with skin and if swallowed. Causes severe burns. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Ingestion causes burns of the upper digestive and respiratory tracts. Will penetrate skin and attack underlying tissues and bone.

Appearance Clear Physical State Liquid Odor 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.

Seek Medical Attention.

SkinCauses serious injury to skin, which may not be immediately painful or visible. **Inhalation**Causes respiratory irritation. Symptoms may be delayed for several hours.

Ingestion Ingestion is toxic and can causes severe mouth, throat and stomach burns. Seek medical attention.

Environmental Hazard See Section 12 for additional Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	
Water	7732-18-5	90 - 100	
Hydrofluoric Acid (Hydrogen Fluoride)	7664-39-3	1.50 – 3.5	
Denatonium Benzoate	3734-33-6	0.01 – 0.10	

4. FIRST AID MEASURES

General Advice Call 800.229.6036 or emergency medical service. Remove and isolate contaminated clothing and shoes.

In case of contact with eyes, remove contacts if needed, immediately flush eyes with running water for at least

20 minutes. Get medical attention immediately.

Skin Contact Avoid spreading material on unaffected skin. Wash off immediately with plenty of water for 15 minutes. Treat

with Calcium Gluconate (2.5%) or with a over-the-counter anti-acid containing Calcium or Magnesium. 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. Several glasses of milk or several ounces

of milk of magnesia may be given for soothing. Take Injured Party to a Doctor Immediately!

5. FIRE-FIGHTING MEASURES

Flammable Properties Non-combustible, substance itself does not burn but may decompose upon heating to produce

corrosive and/or toxic fumes. Produces Hydrogen Fluoride Gas or Hydrogen Gas upon heating. Containers may rupture due to gas build-up when heated. Reaction with certain metals generates

flammable and potentially explosive hydrogen gas.

Flash Point Not Flammable.

Suitable Extinguishing Media Use water or suitable agent for fires. Do not use solid water streams. Acid reacts with water and can

splatter acid onto personnel. Care should be exercised when water is used to dilute acid. Will react

with water and generate heat and fumes.

Hazardous Combustion Products

Hydrogen Gas and/or Hydrogen Fluoride Gas

Explosion Data

Sensitivity to mechanical impact
Sensitivity to static discharge
Not sensitive
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 3 Flammability 0 Stability 1 Physical and Chemical Hazards W Other: Acid/ Toxic

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 Carefully neutralize with caustic soda, lime or other alkaline material. Put into approved disposal container.

Other Information Do not use metal or glass containers. Do not use metal tools for cleaning spills.

7. HANDLING AND STORAGE

Handling Always wear recommended Personal Protective Equipment. Do not breathe vapor or mist. Use only with

adequate ventilation. Avoid contact with skin, eyes and clothing. Do not add water to product. Care should

be taken when adding to water to prevent splattering and heat buildup.

Storage Store only in the original container. Store in cool, well-ventilated area. Do not store in metal containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure GuidelinesThis 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 acid mists below permissible TLV levels.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles. Face-shield.

Skin and Body Protection Wear Chemical Resistant Gloves.

Respiratory Protection If exposure limits are exceeded or

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 Acrid / Sharp Pungent

Odor Threshold No information available Physical State Liquid

pH As is < 1 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 No data available.

Water Solubility Complete (Weight%) VOC Content Not applicable.

Evaporation Rate < 1 (Compared to: Ether)

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 Glass, concrete and other silicone materials. Carbonates, sulfides and cyanides (yields toxic

gases). Alkalies and oxides (cause violent exothermic reactions). Common metals (yield Hydrogen Gas, fire and explosive reactive hazard). Corrosive to many materials (includes leather and many organics). Water added to product yields heat and violent reaction.

Conditions to AvoidMoisture, humidity, heat, flame, ignition sources and incompatibles.

Hazardous Reactions Reacts violently with water, metals, alkalies, oxides, carbonates, sulfides, cyanides, glass,

concrete and other silicones.

Hazardous Polymerization Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure Eye, Mouth, Nasal and Mucous Membrane irritation. Burning of the skin, mottling of teeth

and bones.

Acute Effects

Eyes May cause severe conjunctiva irritation and corneal damage. May cause burns.

Skin 2% solution of hydrofluoric acid was corrosive to rabbit skin with 1 hour exposure, but not with 1 minute.

Inhalation May cause irritation of respiratory tract and mucous membranes.

Ingestion Harmful or fatal if swallowed. Ingestion may cause burns and irritation to gastrointestinal tract.

Target Organ Effects Bone and joints

Chronic Toxicity Prolonged exposure can cause bone and joint changes in humans (Fluorosis).

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

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 contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	Chemical Name California Hazardous Waste Status		
Hydrofluoric Acid (Hydrogen Fluoride)	Corrosive		

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity

Hazard Class ORM-D

Description Consumer commodity, ORM-D

TDG

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength

Hazard Class 8, 6.1 UN-No UN1790 Packing Group II

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, II

MEX

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1 UN-No UN1790 Packing Group II

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, PG II

ICAO

UN-No UN1790

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1
Packing Group II

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, PG II

IATA

UN-No UN1790

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

14. TRANSPORT INFORMATION

Hazard Class 8, 6.1
Packing Group II
ERG Code 8L

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, PG II

IMDG/IMO

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1
Subsidiary Class Toxic
UN-No UN1790
Packing Group II
EmS No. 8.03

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, PG II

RID

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1
UN-No UN1790
Packing Group II
Classification Code 2XE

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1,II, RID

ADR/RID-Labels 8, 6.1

<u>ADR</u>

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1
UN-No UN1790
Packing Group II
Classification Code 2XE

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, II

<u>ADN</u>

Proper Shipping Name Hydrofluoric Acid, with </= 60% strength.

Hazard Class 8, 6.1
Packing Group II
Classification Code Unknown
Special Provisions 274

Description UN 1790 Hydrofluoric Acid, with </= 60% strength (Hydrofluoric Acid 3%), 8, 6.1, II

Hazard Labels 8

Limited Quantity Unknown

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15. REGULATORY INFORMATION

International Inventories

TSCA Hydrofluoric Acid, Aqueous is listed

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 (hydrogen fluoride), 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 No
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

15. REGULATORY INFORMATION Cont.

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). Hydrogen Fluoride (Hydrofluoric Acid) 100 lbs. There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

I	Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
	Hydrofluoric Acid	NA	NA	NA	NA	NA

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 F Dangerously reactive material D1A Toxic materials







16. OTHER INFORMATION

Revision Date 10/06/2008 Revision Note Second 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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