



Material Safety Data Sheet

IDENTITY (As Used on Label and list) Rust Stain Remover	HMIS Rating			
	Health 3	Flammability 0	Reactivity 0	Personal Protection Index B

Section I	
Manufacturer's Name Whink Products Company	Emergency Telephone Numbers Transportation-Chemtrec: (800) 424-9300 Medical: (800) 229-6036 Outside U.S.: (703) 527-3887 (Collect)
Address (Number, Street, City, and ZIP Code)	Telephone Number for Information (800) 247-5102
1901 15 th Avenue	Date Prepared 6-27-00
Eldora, IA 50627	Supercedes 1-25-99
	Signature of Preparer (optional) <i>Joe Amer</i>

Section II — Hazardous Ingredients/Identity Information					
Hazardous Components (Specify Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Hydrogen Fluoride	7664-39-3	3 ppm (as F)	3 ppm (as F)	None	2.5 – 3.0

Section III — Physical/Chemical Characteristics			
Boiling Point	212° F	Specific Gravity	1.01
Vapor Pressure (mm Hg)	Not determined	Melting Point	Not applicable
Vapor Density (AIR = 1)	Not determined	Evaporation Rate (Butyl Acetate = 1)	Slower than 1
Solubility in Water Infinitely soluble		pH (as is)	< 1
Appearance and Odor Clear, water-white liquid with irritating pungent odor.			

Section IV — Fire and Explosion Hazard Data			
Flash Point (Method Used) None	Flammable Limits Not applicable	LEL —	UEL —
Extinguishing Media Water spray			

Special Fire Fighting Procedure
Wear protective clothing including a NIOSH-approved self contained breathing apparatus. Neutralize run-off from fire control with lime, soda ash, etc. to prevent pollution and corrosion of metals and formation of Hydrogen gas.

Unusual Fire and Explosion Hazards
Thermal decomposition may produce Hydrogen Fluoride (HF) gas. Product may react with some metals (example: Aluminum, Zinc, Tin, etc.) to release Hydrogen gas.

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	

Incompatibility (Materials to Avoid)

Avoid alkalis and oxidizers, bleaching agents or other chemicals. Also metals and glass.

Hazardous Decomposition or Byproducts

Hydrogen Fluoride on heating.

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? Yes	Skin? Yes	Ingestion? Yes
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Health Hazard (*Acute and Chronic*)

Acute Toxicity: Severe eye irritant. Causes serious injury to skin which may not be immediately painful or visible. Causes respiratory irritation and is toxic by ingestion.

Chronic Toxicity: May cause bone and joint changes in humans (Fluorosis).

Carcinogenicity:	NTP? No	IARC Monograph? No	OSHA Regulated? No
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Signs and Symptoms of Exposure

Skin and Eyes: Severe burning or irritation.

Inhalation: Irritation of nose, throat, and respiratory system.

Ingestion: Serious damage to mouth, esophagus, stomach, and may be fatal.

Medical Conditions Generally Aggravated by Exposure:

Unknown

Emergency and First Aid Procedures

In all cases, contact a physician immediately. For ingestion, drink large amounts of water or milk. For eye and skin contact, flush immediately for 15 minutes with water. Hydrofluoric acid burns require special treatment which may include Calcium Gluconate injection to prevent serious injury.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Small Spills: Dilute immediately with water.

Large Spills: Dilute with water and use commercial acid spill cleanup materials or equipment.

Waste Disposal Method

In accordance with local, state, and federal regulations.

Precautions to Be Taken in Handling and Storing

Store in a cool, dry place.

Other Precautions

Launder all fabrics and wash all surfaces to which product has been applied.

Section VIII — Control MeasuresRespiratory Protection (*Specify Type*)

None for diluted form and under conditions of normal use.

Ventilation	Local Exhaust Yes	Special
	Mechanical (<i>General</i>)	Other

Protective Gloves

Wear rubber gloves.

Eye Protection

Wear splash goggles or suitable eye protection.

Other Protective Clothing or Equipment

As necessary to avoid skin contact.

Work/Hygienic Practices

Wash hands with soap and water after handling.