

SAFETY DATA SHEETS

This SDS packet was issued with item:

073730793

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

073730785

1. Product and Company Identification

Product Name Shine Renew Instrument Stain & Rust Remover
CAS # Mixture
Product use Rust & Stain Remover
Manufacturer Hu-Friedy Mfg. Co., Inc.
 3232 N. Rockwell
 Chicago, IL 60618-5982 US
 Phone: 773.975.8100
 Fax: 773.868.3599
 Emergency Phone: 773.975.8100

LEGEND	
HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	3
Flammability	0
Physical Hazard	0
Personal Protection	C



2. Hazards Identification

Emergency overview **DANGER – CORROSIVE**
Potential short term health effects
Routes of exposure Eye, Skin contact, Inhalation, Ingestion.
Eyes Causes chemical burns. May cause blindness.
Skin Causes chemical burns.
Inhalation May cause respiratory tract irritation.
Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Target organs Eyes. Respiratory system. Skin.
Chronic effects Prolonged or repeated exposure to dilutions can cause drying, defatting and dermatitis.
Signs and symptoms The product causes burns of eyes, skin and mucous membranes.

3. Composition / Information on Ingredients

Ingredient(s)	CAS #	Percent
Glycols, polyethylene-polypropylene	9003-11-6	3 - 7
Phosphoric acid	7664-38-2	10 - 30

5. Fire Fighting Measures

Flammable properties Not flammable by WHMIS/OSHA criteria.
Extinguishing media
Suitable extinguishing media Dry chemical, Carbon dioxide, Water spray, Alcohol foam.
Unsuitable extinguishing media Not available
Protection of firefighters
Specific hazards arising from the chemical Not available
Protective equipment for firefighters Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products May include and are not limited to: Oxides of carbon, Oxides of phosphorus.
Explosion data
Sensitivity to mechanical impact Not available
Sensitivity to static discharge Not available

4. First Aid Measures

First aid procedures
Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue flushing for 15 minutes. Obtain medical attention immediately.
Skin contact Immediately flush with water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
General advice If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Methods for containment Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling Use good industrial hygiene practices in handling this material. Do not get this material in your eyes, on your skin, or on your clothing.
Storage Keep out of the reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limits

Ingredient(s)	Exposure Limits
Glycols, polyethylene-polypropylene	ACGIH-TLV Not established OSHA-PEL Not established
Phosphoric acid	ACGIH-TLV TWA: 1 mg/m3 STEL: 3 mg/m3 OSHA-PEL TWA: 1 mg/m3

Engineering controls General ventilation normally adequate.
Personal protective equipment
Eye / face protection Wear chemical goggles.
Hand protection Polyethylene, Neoprene, Rubber, latex or nitrile gloves.
Skin and body protection As required by employer code. Use of an impervious apron is recommended.
Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations Use good industrial hygiene practices in handling this material. When using do not eat or drink, Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Clear.	Pour point	Not available
Color	Violet	Evaporation rate	Not available
Form	Liquid	Flammability limits in air, lower, % by volume	Not available
Odor	Mild	Flammability limits in air, upper, % by volume	Not available
Odor threshold	Not available	Vapor pressure	Not available
Physical state	Liquid	Vapor density	Not available
pH	< 1.4	Specific gravity	1.08
Freezing point	Not available	Octanol/water coefficient	Not available
Boiling point	Not available	Solubility (H2O)	Complete
Flash point	Not available	Auto-ignition temperature	Not available
		Percent volatile	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Bases. Reducing agents. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of phosphorus.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Fish Species Data		
Phosphoric acid	7664-38-2	96 Hr LC50 <i>Gambusia affinis</i> : 3 - 3.5 mg/L
Ecotoxicity - Water Flea Data		
Phosphoric acid	7664-38-2	12 Hr EC50 <i>Daphnia magna</i> : 4.6 mg/L
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence / degradability	Not available	
Bioaccumulation / accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s. (PHOSPHORIC ACID)
Hazard class	8
UN number	UN3264
Packing group	III
Additional information:	
Special provisions	IB3, T7, TP1, TP28
Packaging exceptions	154
ERG number	154



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID)
Hazard class	8
UN number	UN3264
Packing group	III
Additional information:	
Special provisions	16



16. Other Information

Disclaimer	Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.
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Expiry date	01-Oct-2012
Prepared by	Dell Tech Laboratories Ltd. (519) 858-5021

Other information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.
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MATERIAL SAFETY DATA SHEET

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Glycols, polyethylene-polypropylene	Not available
Phosphoric acid	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Glycols, polyethylene-polypropylene	5000 mg/kg rat
Phosphoric acid	1530 mg/kg rat

Effects of acute exposure

Eye	Causes chemical burns. May cause blindness.
Skin	Causes chemical burns.
Inhalation	May cause respiratory tract irritation.
Ingestion	Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.
Sensitization	Non-hazardous by WHMIS/OSHA criteria.
Chronic effects	Non-hazardous by WHMIS/OSHA criteria.
Carcinogenicity	Non-hazardous by WHMIS/OSHA criteria.
Mutagenicity	Non-hazardous by WHMIS/OSHA criteria.
Reproductive effects	Non-hazardous by WHMIS/OSHA criteria.
Teratogenicity	Non-hazardous by WHMIS/OSHA criteria.
Synergistic Materials	Not available

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Canada - WHMIS - Ingredient Disclosure List

Phosphoric acid	7664-38-2	1 %
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US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Phosphoric acid	7664-38-2	5000 Lb final RQ; 2270 kg final RQ
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U.S. - CWA (Clean Water Act) - Hazardous Substances

Phosphoric acid	7664-38-2	Present
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Occupational Safety and Health Administration (OSHA) 29 CFR 1910.1200 hazardous chemical Yes

CERCLA (Superfund) reportable quantity

Phosphoric acid: 5000.0000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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Section 302 extremely hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA) Not available

WHMIS status

Controlled

WHMIS classification

Class E - Corrosive Material

WHMIS labeling

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer.

U.S. - California - 8 CCR Section 339 - Director's List of Hazardous Substances

Phosphoric acid	7664-38-2	Present
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U.S. - Louisiana - Reportable Quantity List for Pollutants

Phosphoric acid	7664-38-2	5000 Lb final RQ; 2270 kg final RQ
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U.S. - Massachusetts - Right To Know List

Phosphoric acid	7664-38-2	Present
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U.S. - Minnesota - Hazardous Substance List

Phosphoric acid	7664-38-2	Present
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U.S. - New Jersey - Right to Know Hazardous Substance List

Phosphoric acid	7664-38-2	sn 1516
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U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

Phosphoric acid	7664-38-2	5000 Lb RQ (air); 100 lb RQ (land/water)
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U.S. - Pennsylvania - RTK (Right to Know) List

Phosphoric acid	7664-38-2	Environmental hazard
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U.S. - Rhode Island - Hazardous Substance List

Phosphoric acid	7664-38-2	Toxic, Flammable
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Inventory name	Country(s) or region	Inventory name	On inventory (yes/no)*
	Canada	Domestic Substances List (DSL)	No
	Canada	Non-Domestic Substances List (NDSL)	Yes
	United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)