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



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name Shine Renew Instrument Stain & Rust Remover

CAS # Mixture
Product use Cleaner

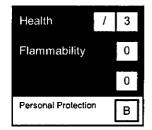
Manufacturer Hu-Friedy Mfg. Co., LLC

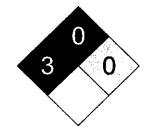
3232 N, Rockwell

Chicago, IL 60618-5982 US Phone: 773.975.6100 Fax: 773.868.3599

Emergency Phone: 1-800-535-5053 Outside US: 001-352-323-3500

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





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. Dust extremely irritating to respiratory tract.

Ingestion Harmful if swallowed. May cause chemical burns to mouth, throat and stomach.

Target organs Eyes. Skin. Mucous membranes.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms The product may cause burns to eyes, skin and mucous membranes.

OSHA Regulatory Status

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition / Information on Ingredients

	CAS#	Dorgont
Ingredient(s)	CAS#	Percent
Phosphoric acid	7664-38-2	15 - 40

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 cool water for 15 minutes while removing contaminated clothing

and shoes. Discard or wash well before reuse. 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. Never give anything by mouth if victim is unconscious, or is

convulsing. Obtain medical attention.

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Ge	nei	ral	34	dvi	ce

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.

5. Fire Fighting Measures

Flammable properties

Not flammable by WHMIS/OSHA criteria.

Extinguishing media

Suitable extinguishing media

Treat for surrounding material.

Unsuitable extinguishing media

Not available

Protection of firefighters

Specific hazards arising from

Not available

the chemical

Protective equipment for

firefighters

Firefighters should wear full protective clothing including self contained breathing

May include and are not limited to: Oxides of phosphorus. Hydrogen gas.

apparatus.

Hazardous combustion products

Explosion data

Sensitivity to mechanical

impact

Not available

Sensitivity to static discharge

Not available

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.

Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods for containment Methods for cleaning up

Stop leak if you can do so without risk.

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.

7. Handling and Storage

Handling

Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling. Keep container tightly closed.

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

Phosphoric acid

ACGIH-TLV TWA: 1 mg/m3 STEL: 3 mg/m3 OSHA-PEL

TWA: 1 mg/m3

Engineering controls

Personal protective equipment

General ventilation normally adequate.

Eye / face protection

Wear chemical goggles.

Hand protection Skin and body protection

As required by employer code. Rubber apron recommended.

Rubber gloves. Confirm with a reputable supplier first.

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

Clear. **Appearance** Violet Color Liquid Form Mild Odor

Not available Odor threshold Liquid Physical state < 1.4 pН

Not available Melting point Not available Freezing point Not available **Boiling point** Not available Pour point Not available **Evaporation rate** Not flammable Flash point Not available Auto-ignition temperature Not available Flammability limits in air, lower, %

by volume

Not available

Flammability limits in air, upper, %

by volume Vapor pressure

Vapor density

Not available Not available

1.18 Specific gravity

Not available Octanol/water coefficient Complete Solubility (H2O) Not available Percent volatile

10. Stability and Reactivity

Reacts vigorously with alkaline material. Reactivity

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Chemical stability

Stable under recommended storage conditions. Do not mix with other chemicals.

Conditions to avoid Incompatible materials

Bases, Oxidizers, Reducing agents.

Hazardous decomposition products May include and are not limited to: Oxides of phosphorus. Hydrogen gas.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)

LC50

Phosphoric acid

Not available

Component analysis - Oral LD50

Ingredient(s)

LD50

1530 mg/kg rat Phosphoric acid

Effects of acute exposure

Causes chemical burns. May cause blindness. Eye

Causes chemical burns. Skin

May cause respiratory tract irritation. Dust extremely irritating to respiratory tract. Inhalation Harmful if swallowed. May cause chemical burns to mouth, throat and stomach. Ingestion

Non-hazardous by WHMIS/OSHA criteria. 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

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Teratogenicity Non-hazardous by WHMIS/OSHA criteria.

Name of Toxicologically Synergistic Not available

Products

products

12. Ecological Information

Ecotoxicity Components of this product have been identified as having potential environmental

concerns.

Ecotoxicity - Freshwater Fish - Acute Toxicity Data

Phosphoric acid 7664-38-2 96 Hr LC50 Gambusia affinis: 3 - 3.5 mg/L

Ecotoxicity - Water Flea - Acute Toxicity Data

Phosphoric acid 7664-38-2 12 Hr EC50 Daphnia magna: 4.6 mg/L

Persistence / degradability Not available Not available Bioaccumulation / accumulation Mobility in environmental media Not available **Environmental effects** Not available Not available Aquatic toxicity Not available Partition coefficient Not available Chemical fate information Not available Other adverse effects

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

Waste from residues / unused Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name Phosphoric acid solution

Hazard class 8

UN number UN1805 Packing group III

Additional information:

Special provisions A7, IB3, N34, T4, TP1

Packaging exceptions 154 ERG number 154

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name PHOSPHORIC ACID, LIQUID

Hazard class 8

UN number UN1805
Packing group III





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%

WHMIS status

Controlled

WHMIS classification

Class E - Corrosive Material

WHMIS labeling



Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

Yes

chemical

US Federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

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

Phosphoric acid

7664-38-2

5000 Lb final RQ; 2270 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Phosphoric acid

7664-38-2

Present

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

Section 302 extremely

hazardous substance

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Not available

Clean Water Act (CWA)

Hazardous substance

State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

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

Phosphoric acid

7664-38-2

Phosphoric acid

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

5000 Lb final RQ; 2270 kg final RQ

U.S. - Massachusetts - Right To Know List

Phosphoric acid

7664-38-2 Present

U.S. - Minnesota - Hazardous Substance List 7664-38-2

Present

Present

Phosphoric acid

U.S. - New Jersey - Right to Know Hazardous Substance List

Phosphoric acid

7664-38-2

sn 1516 U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances

5000 Lb RQ (air); 100 lb RQ (land/water)

Phosphoric acid

7664-38-2 U.S. - Pennsylvania - RTK (Right to Know) List

Phosphoric acid

7664-38-2

Environmental hazard

U.S. - Rhode Island - Hazardous Substance List

Phosphoric acid

7664-38-2

Toxic; Flammable

Inventory name

Country(s) or region

Inventory name

On inventory (yes/no)*

Canada

Yes

Canada

Domestic Substances List (DSL)

No

Non-Domestic Substances List (NDSL)

Yes

United States & Puerto Rico

Toxic Substances Control Act (TSCA) Inventory

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

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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.

 Issue date
 04-Aug-2011

 Effective date
 15-Jun-2011

 Expiry date
 15-Jun-2014

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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