

PMS-890 – Rust Free

Date: 8-18-16

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Rust Free

**Other Means of Identification**

**UN/ID No** UN2924

**Product Code** 890

**Recommended Use of the Chemical and Restrictions on Use**

**Recommended Use** Rust, Corrosion and Stain Remover.  
**Uses Advised Against** For industrial and institutional use only.

**Details of the Supplier of the Safety Data Sheet**

**Manufactured for Address** PMS Products, Inc.  
 76 Veterans Dr. #110  
 Holland, MI 49423

**Emergency Telephone Number**

**Company Phone Number** 800-962-1732  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Classification**

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 1 Sub-category C
Serious Eye Damage/Eye Irritation	Category 1
Flammable Liquids	Category 3

**Signal Word**

**DANGER**

**Hazard Statements**

Harmful if inhaled  
 Causes severe skin burns and eye damage.  
 Flammable liquid



**Appearance** Clear liquid

**Physical State** Liquid

**Odor** Mild

**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
 Keep container tightly closed.

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation develops or persists seek medical attention.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician

**IF SWALLOWED:** Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep lid tightly closed when not in use.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Phosphoric acid	7664-38-2	<30
Isopropyl alcohol	67-63-0	<10
Ethoxylated Alcohol	66455-14-9	<10

### 4. FIRST AID MEASURES

**First Aid Measures**

<b>General Advice</b>	Provide this SDS to medical personnel for treatment.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention/advice.
<b>Eye Contact</b>	Flush material out immediately with large amounts of water for at least 15 minutes, holding eye lids apart to insure flushing of the entire surface. Washing eyes within several seconds is essential to achieve maximum effectiveness. Get medical attention immediately.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. Drink 1-2 glasses of water. If vomiting occurs spontaneously, keep airway clear. Get medical attention immediately.
<b>Skin Contact</b>	Immediately remove contaminated clothing and flush affected areas with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Get medical attention immediately.

**Most Important Symptoms and Effects, both Acute and Delayed**

<b>Symptoms</b>	Corrosive to all body tissues by all routes of exposure. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.
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**Indication of any Immediate Medical Attention and Special Treatment Needed**

<b>Note to Physicians</b>	Treat symptomatically. Exposure may aggravate medical conditions such as asthma, lung disease, and skin disorders.
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**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Carbon dioxide, dry chemical, water fog, foam.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Flammable/combustible material.

**Sensitivity to Static Discharge** Flammable mixtures of this product are readily ignited even by static discharge.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal Precautions** ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as required.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).

**Methods for Cleaning Up** Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use only in well-ventilated areas. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Ground container and transfer equipment to eliminate static electric sparks. Avoid contact with skin, eyes or clothing. Use explosion proof equipment. Take precautionary measures against static discharges.

**Conditions for Safe Storage, Including any Incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep locked up and out of reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Storage temperature should be between 50°F - 120°F.

**Incompatible Materials** Strong oxidizing agents. Alkalis. Metals. Bleach.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric acid 7664-38-2	-	TWA: 1 mg/m <sup>3</sup> STEL: 3 mg/m <sup>3</sup>	-
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm	-

**Appropriate Engineering Controls**

**Engineering Controls** Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection** Wear goggles or chemical safety glasses, especially when splashing may occur.

**Skin and Body Protection** Wear protective gloves and protective clothing.

**Respiratory Protection** No special equipment needed.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on Basic Physical and Chemical Properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	1	
Melting Point/Freezing Point	Not applicable	
Boiling Point/Boiling Range	Not determined	
Flash Point	>120° F	
Evaporation Rate	1	(butyl acetate = 1)
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Lower Flammability Limit	Not determined	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	1.16	
Water Solubility	Completely soluble	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Auto ignition Temperature	Not determined	

<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined
<b>VOC Content (%)</b>	Not determined

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to Avoid

Excessive heat or cold. Contamination of any kind.

### Incompatible Materials

Strong oxidizing agents. Alkalis. Metals. Bleach.

### Hazardous Decomposition Products

Heating phosphoric acid to decomposition yields toxic phosphorus pentoxide fumes.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

<b>Inhalation</b>	Harmful if inhaled.
<b>Eye Contact</b>	Causes severe eye damage.
<b>Skin Contact</b>	Causes severe skin burns.
<b>Ingestion</b>	Can cause irritation and corrosive burns to mouth, throat, and stomach.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric acid 7664-38-2	4400 mg/kg (Rat)	>3160 mg/kg (Rabbit)	-
Isopropyl alcohol 67-63-0	5050 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	

### Information on Physical, Chemical and Toxicological Effects

#### Symptoms

Corrosive to all body tissues by all routes of exposure. The effect of local dermal exposure may consist of multiple areas of superficial destruction of the skin or of primary irritant dermatitis. Similarly, inhalation of dust, spray or mist may result in varying degrees of irritation or damage to the respiratory tract tissues and an increased susceptibility to respiratory illness.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Carcinogenicity** No components of this product have been identified as carcinogens or potential carcinogens by ACGIH, IARC, NTP or OSHA.

**Numerical Measures of Toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Phosphoric acid 7664-38-2		LC50: Mosquito Fish 138 mg/l 96 h		-
Isopropyl alcohol 67-63-0		LC50: Pimephales promelas 9640 mg/L 96 h		EC50: Daphnia magna 1400 mg/L 48 h

**Persistence and Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Do not reuse container. Triple rinse empty container with water. Plastic containers may be offered for recycling.

**14. TRANSPORT INFORMATION****Note**

Shipping descriptions may vary based on mode of transportation, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

**DOT**

- UN/ID No** UN2924
- Proper Shipping Name** Flammable liquids, corrosive, n.o.s (Isopropanol and Phosphoric acid)
- Hazard Class** 3
- Subsidiary Hazard Class** 8
- Packing Group** III
- Reportable Quantity (RQ)** 5000 lbs Phosphoric acid

**IATA**

- UN/ID No** UN2924

**Proper Shipping Name** Flammable liquid, corrosive, n.o.s (Isopropanol and Phosphoric acid)  
**Hazard Class** 3  
**Subsidiary Hazard Class** 8  
**Packing Group** III

**IMDG**

**UN/ID No** UN2924  
**Proper Shipping Name** Flammable liquid, corrosive, n.o.s (Isopropanol and Phosphoric acid)  
**Hazard Class** 3  
**Subsidiary Hazard Class** 8  
**Packing Group** III

**15. REGULATORY INFORMATION**

**International Inventories**

**TSCA** Listed  
**DSL** Listed  
**NDSL** Listed

**Legend:**

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol	67-63-0	<10	1.0

**CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Phosphoric acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

**US State Regulations**

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Phosphoric acid 7664-38-2	X	X	X
Isopropyl alcohol 67-63-0	X	X	X

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	2	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	2	0	C

**Disclaimer**

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**