

PMS-890 – Rust Free

Date: 11/22/19

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

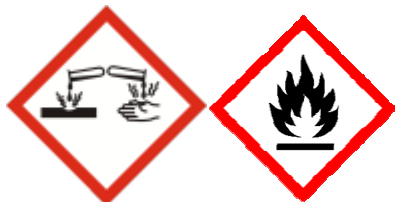
DANGER

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

- General Advice** Provide this SDS to medical personnel for treatment.
- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention/advice.
- Eye Contact** 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.
- Ingestion** 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.
- Skin Contact** 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

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.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically. Exposure may aggravate medical conditions such as asthma, lung disease, and skin disorders.

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 ³ STEL: 3 mg/m ³	-
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

Physical State	Liquid	Odor	Mild
Appearance	Clear liquid	Odor Threshold	Not determined
Color	Clear		
Property	Values	Remarks • Method	
pH	1		
Melting Point/Freezing Point	Not applicable		
Boiling Point/Boiling Range	Not determined		
Flash Point	125° 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		

Decomposition Temperature	Not determined
Kinematic Viscosity	Not determined
Dynamic Viscosity	Not determined
Explosive Properties	Not determined
Oxidizing Properties	Not determined
VOC Content (%)	<1%

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

Inhalation	Harmful if inhaled.
Eye Contact	Causes severe eye damage.
Skin Contact	Causes severe skin burns.
Ingestion	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

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