

**1. PRODUCT AND COMPANY IDENTIFICATION****Product Identifier****Product Name** *Rust Free***Other Means of Identification****SDS #** 890**UN/ID No** UN2924**Product Code** 890**Recommended Use of the Chemical and Restrictions on Use****Recommended Use** Rust and corrosion remover**Details of the Supplier of the Safety Data Sheet****Supplier Information:**

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) INFOTRAC REFERENCE NO. 88867**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 and vapor

**Appearance** Clear liquid**Physical State** Liquid**Odor** Mild

**Precautionary Statements - Prevention**

Use only 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  
Ground/bond container and receiving equipment  
Use explosion-proof equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge

**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 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  
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

Store locked up  
Store in a well-ventilated place.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other Hazards**

Toxic to aquatic life with long lasting effects  
Toxic to aquatic life

**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**

IF INHALED: 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.

|                     |                                                                                                                                                                                                                                               |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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, discard footwear, which cannot be decontaminated. 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. |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**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. |
|---------------------------|--------------------------------------------------------------------------------------------------------------------|

**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**

|                             |                                                                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b> | ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet. |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

|                                |                                                                                                                                                                                                                                                                                                 |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for Containment</b> | Prevent further leakage or spillage if safe to do so. Absorb spill with inert material (e.g. dry sand or earth).                                                                                                                                                                                |
| <b>Methods for Cleaning Up</b> | Use clean non-sparking tools to collect absorbed material. Sweep up and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS. |

## 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. Use personal protection recommended in Section 8. 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. Alkalies. Metals. Bleach.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

| Chemical Name                | ACGIH TLV                                             | OSHA PEL                                                                                                                                                                          | NIOSH IDLH                                                                                                    |
|------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Phosphoric acid<br>7664-38-2 | STEL: 3 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup> | TWA: 1 mg/m <sup>3</sup><br>(vacated) TWA: 1 mg/m <sup>3</sup><br>(vacated) STEL: 3 mg/m <sup>3</sup>                                                                             | IDLH: 1000 mg/m <sup>3</sup><br>TWA: 1 mg/m <sup>3</sup><br>STEL: 3 mg/m <sup>3</sup>                         |
| Isopropyl alcohol<br>67-63-0 | STEL: 400 ppm<br>TWA: 200 ppm                         | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |

### 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.

#### **Skin and Body Protection**

Wear protective gloves and protective clothing. Rubber or PVC (gloves and boots).

#### **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**  
**Appearance**  
**Color**

Liquid  
Clear liquid  
Clear

**Odor**  
**Odor Threshold**

Mild  
Not determined

| <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                  | > 150 °F           |                         |
| Evaporation Rate             | 1                  | (butyl acetate = 1)     |
| 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 |                         |
| RVOC                         | <10%               |                         |

## 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. Alkalies. 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<br>7664-38-2      | = 1530 mg/kg ( Rat ) | = 2730 mg/kg ( Rabbit )                           | > 850 mg/m <sup>3</sup> ( Rat ) 1 h |
| Isopropyl alcohol<br>67-63-0      | = 4396 mg/kg ( Rat ) | = 12800 mg/kg ( Rat ) = 12870<br>mg/kg ( Rabbit ) | = 72.6 mg/L ( Rat ) 4 h             |
| Ethoxylated Alcohol<br>66455-14-9 | > 10 g/kg ( Rat )    | > 2 g/kg ( Rat )                                  | -                                   |

**Information on Physical, Chemical and Toxicological Effects****Symptoms**

Please see section 4 of this SDS for symptoms.

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

Isopropyl Alcohol (IPA) is an IARC Monograph Group 3 chemical. IPA is a Group 1 when manufactured by the strong-acid process.

| Chemical Name                | ACGIH | IARC    | NTP | OSHA |
|------------------------------|-------|---------|-----|------|
| Isopropyl alcohol<br>67-63-0 |       | Group 3 |     | X    |

*IARC (International Agency for Research on Cancer)**Group 3 IARC components are "not classifiable as human carcinogens"**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**X - Present***Numerical Measures of Toxicity**

Not determined

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

Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

| Chemical Name                | Algae/aquatic plants                                                                       | Fish                                                                                                                                                     | Toxicity to microorganisms | Crustacea                           |
|------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|
| Phosphoric acid<br>7664-38-2 |                                                                                            | 3 - 3.5: 96 h Gambusia affinis mg/L LC50                                                                                                                 |                            | 4.6: 12 h Daphnia magna mg/L EC50   |
| Isopropyl alcohol<br>67-63-0 | 1000: 96 h Desmodemus subspicatus mg/L EC50<br>1000: 72 h Desmodemus subspicatus mg/L EC50 | 9640: 96 h Pimephales promelas mg/L LC50 flow-through<br>11130: 96 h Pimephales promelas mg/L LC50 static<br>1400000: 96 h Lepomis macrochirus µg/L LC50 |                            | 13299: 48 h Daphnia magna mg/L EC50 |

**Persistence and Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

| Chemical Name                | Partition Coefficient |
|------------------------------|-----------------------|
| Isopropyl alcohol<br>67-63-0 | 0.05                  |

**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.

| Chemical Name                | California Hazardous Waste Status |
|------------------------------|-----------------------------------|
| Phosphoric acid<br>7664-38-2 | Corrosive                         |
| Isopropyl alcohol<br>67-63-0 | Toxic<br>Ignitable                |

## 14. TRANSPORT INFORMATION

**Note**

Shipping descriptions apply to gallon size containers or larger, otherwise use shipping description for Ltd. Qty.

**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/NDL - 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 | 67-63-0 | <10 | 1.0 |
|-----------------------------|---------|-----|-----|

**CWA (Clean Water Act)**

| Chemical Name                | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Phosphoric acid<br>7664-38-2 | 5000 lb                     |                        |                           | X                          |

**CERCLA**

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

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

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

|                              |
|------------------------------|
| <b>16. OTHER INFORMATION</b> |
|------------------------------|

| <u>NFPA</u> | Health Hazards | Flammability | Instability      | Special Hazards     |
|-------------|----------------|--------------|------------------|---------------------|
|             | 3              | 2            | 1                | Not determined      |
| <u>HMIS</u> | Health Hazards | Flammability | Physical Hazards | Personal Protection |
|             | 3              | 2            | 1                | Not determined      |

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**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