

## **MATERIAL SAFETY DATA SHEET**

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This MSDS has been prepared by PSK Pharma Pvt. Ltd., Quality Control Dept.

### **1. PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME

**HOSPAL RUST REMOVER**

COMPANY

PSK Pharma Private Limited

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RECOMMENDED USE: Rust remover for stainless steel surgical instruments, trays, carts and trolleys

### **2. COMPOSITION**

<b>Ingredient Name</b>	<b>CAS Number</b>	<b>Percentage</b>
Phosphoric Acid	7664-38-2	< 40%

### **3. HAZARDS IDENTIFICATION**

HUMAN HEALTH HAZARDS

May cause severe adverse health effects if the product is mishandled.

INHALATION

Inhalation of aerosols or mist may cause sensitization and respiratory tract irritation

INGESTION

Harmful if swallowed

SKIN CONTACT

Skin contact may cause severe irritation, reddening, burning to the skin

EYE CONTACT

Severe eye irritant; may cause irritation, reddening, burning and permanent eye injury

#### **4. FIRST AID MEASURES**

##### **INHALATION**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately

##### **IF SWALLOWED**

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

##### **SKIN CONTACT**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

##### **EYE CONTACT**

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.

#### **5. FIRE FIGHTING MEASURES**

##### **FLAMMABILITY OF THE PRODUCT**

Non-flammable

##### **AUTO-IGNITION TEMPERATURE**

Not applicable

##### **FLASH POINTS**

Not applicable

##### **FLAMMABLE LIMITS**

Not applicable

##### **PRODUCTS OF COMBUSTION**

Not available

##### **FIRE HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES**

Of metals

##### **EXPLOSION HAZARDS IN PRESENCE OF VARIOUS SUBSTANCES**

Non-explosive in presence of open flames and sparks, of shocks.

##### **FIRE FIGHTING MEDIA AND INSTRUCTIONS**

Not applicable

##### **SPECIAL REMARKS ON FIRE HAZARDS**

Reacts with metals to liberate flammable hydrogen gas. Formation of flammable gases with aldehydes, cyanides, mercaptans, and sulfides.

##### **SPECIAL REMARKS ON EXPLOSION HAZARDS**

Mixtures with nitromethane are explosive. (Phosphoric Acid)

#### **6. ACCIDENTAL RELEASE MEASURES (SPILL)**

##### **SMALL SPILL**

**PSK PHARMA PRIVATE LIMITED**  
**PSK/MSDS/131**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

**NEUTRALIZING AGENT**

Sodium Bicarbonate (Baking Soda), Sodium Carbonate (Washing Soda)

**LARGE SPILL**

Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with dry earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.

## **7. HANDLING AND STORAGE**

**PRECAUTIONS**

Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, combustible materials, metals, alkalis. May corrode metallic surfaces. Store in a metallic or coated fiberboard drum using a strong polyethylene inner package.

**STORAGE**

Keep container tightly closed. Keep container in a cool, well-ventilated area

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**PERSONAL PROTECTION**

Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

**PERSONAL PROTECTION IN CASE OF A LARGE SPILL**

Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and Odour	Clear to pale yellow colored clear Solution with characteristic odour
pH (10% aq. Solution)	1.5 – 3.5
Water Solubility	Complete
Specific gravity	0.99 – 1.19
Flash point	Not determined
Autoignition temperature	Not determined
Evaporation rate	Not determined

## 10 STABILITY AND REACTIVITY

### STABILITY

The product is stable

### INSTABILITY TEMPERATURE

Not available

### CONDITIONS OF INSTABILITY

Incompatible materials

### INCOMPATIBILITY WITH VARIOUS SUBSTANCES

Strong Alkalis, Aluminum, Zinc, Soft Metals

### HAZARDOUS DECOMPOSITION PRODUCTS

Toxic fumes of phosphorus oxides, & Flammable hydrogen gas

### POLYMERIZATION

Will not occur

## 11. TOXICOLOGICAL INFORMATION

### INHALATION

May cause irritation of respiratory tract.

### EYE CONTACT

Corrosive to eyes. Causes serious eye damage.

### SKIN CONTACT

May cause irritation and/or may cause burns.

### INGESTION

Ingestion of corrosive substances can cause burns of the upper digestive and respiratory tract.

### PHOSPHORIC ACID:

LD50 Oral 1530 mg/kg (Rat)

LD50 Dermal 2730 mg/kg (Rabbit)

LC50 Inhalation 850 mg/m<sup>3</sup> (Exposure time: 1h)

### DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE

### CARCINOGENICITY

Contains no ingredients above reportable quantities listed as a carcinogen.

### CHRONIC TOXICITY

Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.

### TARGET ORGAN EFFECTS

Respiratory system. Eyes. Skin

## 12. ECOLOGICAL INFORMATION

PHOSPHORIC ACID (7664-38-2)

LC50 FISHES 1

3-3.5 mg/l (Exposure time: 96h – Species: Gambusia affinis)

EC50 DAPHNIA 1

4.6 mg/l (Exposure time: 12h – Species: Daphnia magna)

PERSISTENCE DEGRADABILITY

Information not available

BIOACCUMULATION

Information not available

OTHER ADVERSE EFFECTS

Information not available

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose in a safe manner in accordance with local / national regulations

CONTAMINATED PACKAGING

Do not re-use empty containers

## 14. TRANSPORT INFORMATION

DOT CLASSIFICATION: CLASS 8: Corrosive material

IDENTIFICATION

Phosphoric acid (Phosphoric Acid)

SPECIAL PROVISIONS FOR TRANSPORT

Not available.

## 15. REGULATORY INFORMATION

RISK & SAFETY PHRASES

R34

Causes burns

S1

Keep locked up

S36/37/39

Wear suitable protective clothing, gloves and eye/face protection.

S27

Take off immediately all contaminated clothing.

S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

## **16. OTHER INFORMATION**

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Quality Control Incharge at 91 8192 240 317.