



# Safety Data Sheet

## Metal Prep

### 1. Identification

**Product identifier:** Metal Prep  
**Product code:** 240216  
**Supplier Name:** P.O.R. Products  
38, Portman Road  
New Rochelle, NY  
10801  
**Telephone:** 914 636-0700  
**Emergency telephone number:** 914 636-0700  
**Available hours:** 8h-17h  
**Recommended use:** As a rust remover and a pre-primer  
**Restrictions on use:** For industrial and automotive equipment

### 2. Hazard identification

**Signal word:** WARNING

**Product classification:**



Skin irritation-Category 2. Serious eye irritation-Category 2A.

**Hazard statement(s):** Causes skin irritation and serious eye irritation.

#### Precautionary statement(s)

**Prevention:** Wear protective gloves, protective clothing, eye and face protection. Wash hands thoroughly after handling and any other part of the body that may have been exposed to the product.

**Response:** IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice. Take off contaminated



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clothing and wash it before reuse.

**Storage:** Not applicable.

**Disposal:** Dispose of contents/container in accordance with local, regional, national and/or international regulations in force.

**Other hazards:** No other effects shown.

See toxicological information, section 11

### 3. Composition/Information on ingredients

| No | CAS No     | Common name and synonyms           | Concentration % (w/w) |
|----|------------|------------------------------------|-----------------------|
| 1  | 7664-38-2  | Phosphoric acid                    | 10.00                 |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 1.00                  |

### 4. First-aid measures

If swallowed, irritation, any type of overexposure or symptoms of overexposure occur during use of the product or persists after use, immediately contact a POISON CENTER, an EMERGENCY ROOM or a PHYSICIAN; ensure that the product safety data sheet is available.

**Eye contact:** Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

**Skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

**Inhalation:** Move exposed person to fresh air. Keep this person warm and lying down. Loosen tight clothing such as a collar, tie, belt or waistband. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.



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**Ingestion:** Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

**Symptoms:** This product is irritating to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

**Effects (acute or delayed):** If ingested in large quantities may cause gastro-intestinal disorders. This product is a serious irritant that may cause reversible damages to the cornea.

**Immediate medical attention and special treatment:** No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5. Fire-fighting measures

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media:** Jets of water can facilitate the spread of fire.

**Specific hazards arising from the hazardous product:** No specific hazard.

**Hazardous combustion products:** Zinc and phosphorus oxide. Phosphoric acid.

**Special protective equipment and precautions for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



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### 6. Accidental release measures

**Personal precautions:** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

**Protective equipment and emergency procedures:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

**Methods and materials for containment and cleaning up:** Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor.

### 7. Handling and storage

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. The handling of this product must comply with local regulations. Store in an airtight container located in a dry, well ventilated and soil corrosion resistant cemented. Refer to the storage of the ROHS standards and NFC. Keep away from combustible materials and bases. If the product is stored with other dangerous substances, refer to the NFC segregation table. Containers for corrosive substances shall be kept closed, carry clear identification of their contents and be handled with care. Note: this product attacks certain types of plastic, rubber or coating.

**Conditions for safe storage:** Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**Incompatibility:** Bases. Strong oxidizing agents. Finely divided metals (Ba, Be, Na, P, Al, Mg etc).



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### 8. Exposure controls/Personal protection

| No | CAS No     | Common name and synonyms           | IDHL mg/m3    | TWA mg/m3     | STEL mg/m3    | CEIL mg/m3    |
|----|------------|------------------------------------|---------------|---------------|---------------|---------------|
| 1  | 7664-38-2  | Phosphoric acid                    | 4008          | 1             | 3             | Not available |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | Not available | Not available | Not available | Not available |

IDHL: Immediately Dangerous to Life or Health Concentrations

TWA : Time Weighted Average

STEL: Short -Term Exposure Limit

CEIL: Ceiling Limit

**Appropriate engineering controls:** Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Individual protection measures:** Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eyes:** DO NOT WEAR CONTACT LENSES Wear anti-splash safety goggles.

**Hands:** Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.

**Respiratory:** If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Others:** Wear protective clothing with long sleeves and appropriate safety shoes at all times.



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### 9. Physical and chemical properties

**Physical state:** Liquid

**Colour:** Clear blue

**Odour:** Odorless

**Odour threshold:** Not applicable

**pH:** 2,5 (Acid reserve of 2,5)

**Melting/Freezing point:** 0 °C (32 °F)

**Initial boiling point/boiling range:** 100 °C (212 °F)

**Flash point:** Not applicable

**Lower flammable/explosive limit:** Not applicable

**Upper flammable/explosive limit:** Not applicable

**Auto-ignition temperature:** Not applicable

**Evaporation rate:** 0,050 (ether=1)

**Vapour pressure:** 17,535 mm Hg at 20 °C

**Vapour density:** < 1 (air =1)

**Specific gravity:** 1,090 kg/L at 20 °C (water = 1)

**Solubility in water:** Soluble

**Partition coefficient - n-octanol/water:** Not applicable

**Decomposition temperature:** Not available

**Kinematic viscosity:** Not available

### 10. Stability and reactivity

**Reactivity:** Stable under recommended conditions of storage and handling.

**Chemical stability:** The product is chemically stable under normal conditions of use.

**Possibility of hazardous reactions:** No dangerous or polymerization reactions will not occur under normal conditions of use.

**Conditions to avoid:** Keep away from incompatible products.

**Incompatible materials:** This product may attack metals.

**Hazardous decomposition products:** Zinc and phosphorus oxide. Phosphoric acid.



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### 11. Toxicological information

| No | CAS No     | Common name and synonyms           | (1) LD oral | (2) LD skin | (3) LD skin | (4) LC gases   | (5) LC vapours | (6) LC dusts-mist |
|----|------------|------------------------------------|-------------|-------------|-------------|----------------|----------------|-------------------|
| 1  | 7664-38-2  | Phosphoric acid                    | 1250        | 2740        | 2740        | Not applicable | Not applicable | > 5.00            |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 500         | > 5000      | > 5000      | Not applicable | > 20.00        | > 5.00            |

(1) LD<sub>50</sub> oral mg/kg

(2) LD<sub>50</sub> skin mg/kg

(3) LD<sub>50</sub> skin mg/kg

(4) LC<sub>50</sub> inhalation ppmV 4h gases

(5) LC<sub>50</sub> inhalation mg/l 4h vapours

(6) LC<sub>50</sub> inhalation mg/l 4h dusts-mist

**Routes of exposure:** This product is absorbed by the digestive tract.

**Symptoms:** This product is irritating to skin, eyes, respiratory and digestive tracts. The severity of symptoms can vary depending on the exposure conditions (contact time, product concentration, etc.).

**Delayed and immediate effects:** If ingested in large quantities may cause gastro-intestinal disorders. This product is a serious irritant that may cause reversible damages to the cornea.

| No | CAS No     | Common name and synonyms           | IARC          | ACGIH         | Mutagenicity      | Effect on reproduction |
|----|------------|------------------------------------|---------------|---------------|-------------------|------------------------|
| 1  | 7664-38-2  | Phosphoric acid                    | Not available | Not available | No effects shown. | Not available.         |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | Not available | Not available | Not available.    | Not available.         |

#### Cancer classification under IARC (International Agency for Research on Cancer)

Group 1: carcinogenic to humans.

Group 2A: probably carcinogenic to humans.

Group 2B: possibly carcinogenic to humans.

Group 3: not classifiable as to its carcinogenicity to humans.

Group 4: probably not carcinogenic to humans.



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### Cancer classification under ACGIH (American Conference of Governmental Industrial Hygienists)

- Group A1: confirmed human carcinogen.
- Group A2: suspected human carcinogen.
- Group A3: confirmed animal carcinogen with unknown relevance to humans.
- Group A4: not classifiable as a human carcinogen.
- Group A5: not suspected as a human carcinogen.

## 12. Ecological information

| No | CAS No     | Common name and synonyms           | %     | Persistent | Bio-accumulation | Aquatic ecotoxicity |
|----|------------|------------------------------------|-------|------------|------------------|---------------------|
| 1  | 7664-38-2  | Phosphoric acid                    | 10.00 | Yes        | No               | No                  |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 1.00  | No         | No               | Yes                 |

| No | CAS No     | Common name and synonyms           | %     | Ecotoxicity for aquatic organisms-Short term | Ecotoxicity for aquatic organisms-Long term      | Environmental effects                       |
|----|------------|------------------------------------|-------|--|--|---|
| 1  | 7664-38-2  | Phosphoric acid                    | 10.00 | No known adverse effect to aquatic life.     | No known adverse effect to aquatic life.         | No known adverse effect to the environment. |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 1.00  | Not available.                               | Toxic to aquatic life with long lasting effects. | No known adverse effect to the environment. |

## 13. Disposal considerations

**Methods of disposal:** The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.





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### 14. Transport information

|                            | TDG            | DOT            | IMDG           | IATA           |
|----------------------------|----------------|----------------|----------------|----------------|
| UN number                  |                |                |                |                |
| Proper shipping name       | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| Transport hazard class(es) |                |                |                |                |
| Packing group              |                |                |                |                |

#### Other information

Marine pollutant: No

IMDG: Not applicable

Exemption for limited quantity: Not applicable

Special precautions: Not applicable

Others exemptions: Not applicable

### 15. Regulatory information

#### Canada

| No | CAS No     | Common name and synonyms           | %     | DSL | NDSL | NPRI |
|----|------------|------------------------------------|-------|-----|------|------|
| 1  | 7664-38-2  | Phosphoric acid                    | 10.00 | X   |      |      |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 1.00  | X   |      | X    |

#### United-States

| No | CAS No     | Common name and synonyms           | %     | TSCA | PROP-65 | Right to Know |
|----|------------|------------------------------------|-------|------|---------|---------------|
| 1  | 7664-38-2  | Phosphoric acid                    | 10.00 | X    |         | X             |
| 2  | 68439-45-2 | Alkyl alcohols (C6-C12) ethoxylate | 1.00  | X    |         |               |

The customer is responsible for determining the PPE (personal protection equipment) code for this material.

The classification of the product and the SDS were developed in accordance with HPR and HazCom 2012.



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### 16. Other information

**Date:** 2020-02-25

**Version:** 1

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