

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 1 of 10

Metal Prep

SECTION 1: Identification

Product identifier

Product name: Metal Prep

Product code: 40201, 40204, 40205, 40216, 40255, 240201, 240204, 240205, 240216, 240255



Recommended use of the product and restriction on use

Relevant identified uses: Metal Cleaner

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

United States

P.O.R. Products

38 Portman Road

New Rochelle, NY 10801

914-636-0700

Emergency telephone number:

United States

ChemTel Inc.

+1 800 255 3924

+1 813 248 0585

SECTION 2: Hazard(s) identification

GHS classification:

Skin corrosion, category 1A

Carcinogenicity, category 1A

Specific target organ toxicity - single exposure, category 3, respiratory irritation

Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

H350 May cause cancer if inhaled as a mist.

H335 May cause respiratory irritation.

H373 May cause damage to organs (lungs, respiratory system) through prolonged or repeated exposure if inhaled as a mist.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands and skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 2 of 10

Metal Prep

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P281 Use personal protective equipment as required.
- P271 Use only outdoors or in a well-ventilated area.
- P310 Immediately call a POISON CENTER or doctor/physician.
- P321 Specific treatment (see first aid information on this label).
- P363 Wash contaminated clothing before reuse
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P403+P233 Store in a well ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

| Identification | Name | Weight % |
|--------------------------|---------------------------|----------|
| CAS number: 7779-90-0 | Zinc phosphate | 2-5 |
| CAS number: 7664-38-2 | Phosphoric acid solutions | 10-12 |

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

- Loosen clothing as necessary and position individual in a comfortable position
- Maintain an unobstructed airway
- Get medical advice/attention if you feel unwell
- Take precautions to ensure your own safety
- Remove source of exposure or move person to fresh air and keep comfortable for breathing
- Immediately call a POISON CONTROL CENTER or seek medical attention
- If breathing has stopped, trained personnel should begin rescue breathing
- Avoid mouth-to-mouth contact by using a barrier device
- If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:

- Rinse affected area with soap and water
- If symptoms develop or persist, seek medical attention
- Avoid direct contact and wear chemical protective clothing, if necessary
- Immediately take off all contaminated clothing
- Gently blot or brush away excess product
- Rinse skin with lukewarm, gently flowing water until medical aid is available
- Immediately call a POISON CONTROL CENTER or seek medical attention

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 3 of 10

Metal Prep

Wash contaminated clothing before re-use or discard

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes

If symptoms develop or persist, seek medical attention

Avoid direct contact and wear chemical protective gloves, if necessary

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open

Remove contact lenses, if present and easy to do so

Continue rinsing until medical aid is available

Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly

Seek medical attention if irritation, discomfort, or vomiting persists

Immediately call a POISON CONTROL CENTER or seek medical attention

Do not induce vomiting and rinse mouth

If vomiting occurs naturally, lie on your side, in the recovery position

If breathing has stopped, trained personnel should begin rescue breathing

Avoid mouth-to-mouth contact by using a barrier device

If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 4 of 10

Metal Prep

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment
Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing
Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders)
Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

| Country (Legal Basis) | Substance | Identifier | Permissible concentration |
|-----------------------|---------------------------|------------|--|
| United States (OSHA) | Phosphoric acid solutions | 7664-38-2 | OSHA PEL TWA 1.0 mg/m ³ |
| ACGIH | Phosphoric acid solutions | 7664-38-2 | ACGIH TLV TWA: 1.0 mg/m ³ |
| | Phosphoric acid solutions | 7664-38-2 | ACGIH TLV STEL: 3.0 mg/m ³ |
| NIOSH | Phosphoric acid solutions | 7664-38-2 | NIOSH REL TWA 1.0 mg/m ³ |
| | Phosphoric acid solutions | 7664-38-2 | NIOSH REL ST 3.0 mg/m ³ |
| Australia | Phosphoric acid solutions | 7664-38-2 | TWA: 1 mg/m ³ ; STEL: 3 mg/m ³ |

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.
Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 5 of 10

Metal Prep

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|--|--|
| Appearance | Clear Blue Liquid |
| Odor | Odorless |
| Odor threshold | Not determined or not available. |
| pH | 2.5 |
| Melting point/freezing point | Melting: Approximately 0°C (32°F); Freezing: Approximately 100°C (212°F) |
| Initial boiling point/range | Not determined or not available. |
| Flash point (closed cup) | No Flash Point |
| Evaporation rate | Not determined or not available. |
| Flammability (solid, gas) | Not determined or not available. |
| Upper flammability/explosive limit | Not determined or not available. |
| Lower flammability/explosive limit | Not determined or not available. |
| Vapor pressure | 23.7 mm Hg @ 25°C |
| Vapor density | Not determined or not available. |
| Density | 1.07 g/mL |
| Relative density | Not determined or not available. |
| Solubilities | Miscible in water. |
| Partition coefficient (n-octanol/water) | Not determined or not available. |
| Auto/Self-ignition temperature | Not determined or not available. |
| Decomposition temperature | Not determined or not available. |
| Dynamic viscosity | Not determined or not available. |
| Kinematic viscosity | Not determined or not available. |
| Explosive properties | Not determined or not available. |
| Oxidizing properties | Not determined or not available. |

Other information

| | |
|--|---------------------------|
| VOC Content | 0.0767 gr/L / 0.0071% w/w |
| Recommended Storage Temperature | 40°F - 90°F |
| Recommended Shelf Life | Unopened, 3 Years |

SECTION 10: Stability and reactivity

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 6 of 10

Metal Prep

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Prolonged exposure to high temperatures.

Alkaline conditions (high pH).

Incompatible materials:

Reacts violently with: strong bases (e.g. sodium hydroxide).

Slightly reactive or incompatible with the following materials: aromatic hydrocarbons (e.g. toluene).

Forms flammable chemicals on contact with: metals (e.g. aluminum), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

Hazardous decomposition products:

Irritating chemicals; toxic chemicals; corrosive phosphorous oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data:

No data available.

Substance data:

| Name | Result |
|---------------------------|--------------------|
| Phosphoric acid solutions | Corrosive to skin. |

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 7 of 10

Metal Prep

Product data:

No data available.

Substance data: No data available.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause respiratory irritation

Product data:

No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: May cause damage to organs through prolonged or repeated exposure

Product data:

No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

| Name | Result |
|----------------|---|
| Zinc phosphate | LC50 - Thymallus arcticus - 0.112 mg/L - 96 h |
| | NOEC - Daphnia magna - 0.048 mg/L - 3 w |

Chronic (long-term) toxicity

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 8 of 10

Metal Prep

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

| | |
|--------------------------------------|---|
| UN number | 3264 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions) |
| UN transport hazard class(es) | 8  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| Passenger air/rail | 5L |
| Cargo aircraft only | 60L |
| Stowage category | A |

International Maritime Dangerous Goods (IMDG)

| | |
|--------------------------------------|---|
| UN number | 3264 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions) |
| UN transport hazard class(es) | 8  |
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| EmS number | F-A, S-B |
| Stowage category | A |
| Excepted quantities | E1 |
| Limited quantity | 5L |

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

| | |
|--------------------------------------|---|
| UN number | 3264 |
| UN proper shipping name | CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions) |
| UN transport hazard class(es) | 8  |

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 9 of 10

Metal Prep

| | |
|-------------------------------------|------|
| Packing group | III |
| Environmental hazards | None |
| Special precautions for user | None |
| ERG code | 8L |
| Excepted quantities | E1 |
| Passenger and cargo | 5L |
| Cargo aircraft only | 60L |
| Limited quantity | 1L |

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

| | | |
|-----------|---------------------------|--------|
| 7779-90-0 | Zinc phosphate | Listed |
| 7664-38-2 | Phosphoric acid solutions | Listed |

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA:

| | | | |
|-----------|---------------------------|--------|----------|
| 7664-38-2 | Phosphoric acid solutions | Listed | 5,000 lb |
|-----------|---------------------------|--------|----------|

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

| | | |
|-----------|---------------------------|--------|
| 7664-38-2 | Phosphoric acid solutions | Listed |
|-----------|---------------------------|--------|

New Jersey Right to Know:

| | | |
|-----------|---------------------------|--------|
| 7664-38-2 | Phosphoric acid solutions | Listed |
|-----------|---------------------------|--------|

New York Right to Know:

| | | |
|-----------|---------------------------|--------|
| 7664-38-2 | Phosphoric acid solutions | Listed |
|-----------|---------------------------|--------|

Pennsylvania Right to Know:

| | | |
|-----------|---------------------------|--------|
| 7664-38-2 | Phosphoric acid solutions | Listed |
|-----------|---------------------------|--------|

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-0-0

HMIS: 3-0-0

Initial preparation date: 03.23.2018

Additional information:

Version 1.1

Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Initial preparation date: 03.23.2018

Page 10 of 10

Metal Prep

End of Safety Data Sheet