

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Descaler P
Description: Acidic Liquid
Product Code: NTA DSP
Suggested Use: Scale remover
Restrictions on Use: None

Supplier: NuTech Specialties, Inc.
9811 South 6150 West
West Jordan, UT 84081

Telephone: 801-253-1000 (M-F) 8:00-5:00
Fax: 801-280-0307
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2. HAZARDS IDENTIFICATION

Classification:

GHS Classification: Acute Toxicity 4
Skin Corrosion 1
Serious Eye Damage/Eye Irritation 1
Specific Target Organ Systemic Toxicity (single exposure) 3

GHS Label Elements

Pictogram:

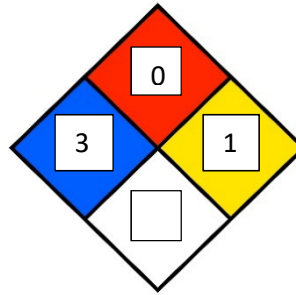


Signal Word: Danger

Hazard Statements: H314, Causes Severe Skin Burns and Eye Damage
H335, H336, May cause respiratory irritation. May cause drowsiness or dizziness.

Precautionary Statements: P261, Avoid breathing dust/fume/gas/mist/vapors/spray
P280, Wear protective gloves/protective clothing/ eye protection.
P305, P351, P338, If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing.
P310, Immediately call a POISON CENTER or doctor/physician.

HMIS Classification:



NFPA Rating:

| | |
|---------------------|---|
| Health | 3 |
| Fire | 0 |
| Reactivity | 1 |
| Personal Protection | C |

Potential Health Effects:

Harmful if ingested or absorbed through the skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component | CAS# | Concentration |
|-----------------|-----------|---------------|
| Phosphoric Acid | 7664-38-2 | 20-30% |

Synonyms:

4. FIRST AID MEASURES

If Inhaled: P304, P340, If INHALED: If breathing is difficult, remove victim to fresh air and at rest in a position comfortable for breathing.
If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician if symptoms are experienced

Skin Contact: P303, P361, P353, If on SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Flush skin with plenty of water. Remove contaminated clothing and shoes. If irritation persists, consult a physician.

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Eye Contact: P305, P351, P338, If in EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if able to do so. Immediately call a doctor or physician.

If Ingested: P301, P330, P330, If SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301, P310, If SWALLOWED: Immediately call POISON CENTER or doctor/physician
Do not induce vomiting unless instructed to do so by physician. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

5. FIREFIGHTING MEASURES

Extinguishing Media: Use water-spray, alcohol resistant foam, dry chemical, or carbon dioxide. Neutralize with soda ash or slaked lime

Hazardous Combustion Products: Firefighting personnel should respond with appropriate protective clothing, firefighting gear, and breathing equipment as trained.

Special Protective Equipment for Firefighters: In fire conditions: a complex mixture of airborne solids, liquids, and gases including Carbon Monoxide, Carbon Dioxide, and unidentified organic compounds. In event of a fire, wear full protective clothing with NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving Hydrochloric Acid. Stay away from ends of tanks. Cool tanks with water spray until well after fire is out.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use personal protective equipment. Always ensure adequate ventilation. Keep unnecessary and unprotected personnel from entering.

Environmental Precautions: Contain and recover liquid when possible. Do not let product enter drains. Neutralize with alkaline material (soda ash, lime) then absorb with an inert material (e.g., vermiculite, dry sand, earth) and place in chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

Containment and Clean Up: Soak up with inert absorbent material and dispose of. Keep in suitable, closed containers for disposal.

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7. HANDLING AND STORAGE

Safe Handling: Keep away from flames and hot surfaces. Use personal protective equipment. Always ensure adequate ventilation.

Safe Storage: Keep containers tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store away from incompatible materials. Do not freeze.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

| Component | CAS Number | Exposure Limit | Basis |
|-----------------|------------|---------------------|-------|
| Phosphoric Acid | 7664-38-2 | 1 mg/m ³ | OSHA |

General Controls: Always ensure adequate ventilation and that working areas contain safety showers and eye wash stations. Handle material in accordance with good industrial hygiene and safety practices.

Personal Protective Equipment

Eye Protection: Tightly fitting safety glasses or goggles should be sufficient. Have eye-wash stations available where eye contact can occur.

Hand Protection: Handle with chemical resistant gloves. Gloves must be inspected prior to use. Wash and dry hands after use.

Skin Protection: Wear long sleeves, a chemical apron, or other protective clothing to prevent skin contact. Safety showers should be located in work area where skin contact can occur.

Respiratory Protection: Where risk assessment shows air-purifying respirators are appropriate, use a NIOSH-approved full face respirator with appropriate cartridges. Always ensure adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-------------------------|--------|
| Physical State: | Liquid |
| Color: | Red |
| Odor: | Acidic |
| Odor Threshold: | N/D |
| pH: | 1 |
| Melting/Freezing Point: | 32° F |

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| | |
|--------------------------------|-------------------|
| Boiling Point: | 212° F |
| Flash Point: | None |
| Evaporation Rate: | N/A |
| Flammability (Solid, Gas): | None |
| Flammability/Explosion Limits: | None |
| Vapor Pressure @ 20°C: | N/A |
| Vapor Density: | N/A |
| Specific Gravity: | 1.1 |
| Density: | 9.2 |
| Solubility in Water: | Complete |
| Partition Coefficient: | No data available |
| Auto Ignition Temperature: | No data available |
| Decomposition Temperature: | No data available |
| Viscosity @ 15°C: | N/A |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Chemical Stability: | Stable |
| Conditions and Materials to Avoid: | Incompatible materials: A strong mineral acid, cyanides, sulfites and formaldehyde. |
| Hazardous Decomposition Products: | Emits toxic fumes of hydrogen flouride |

11. TOXICOLOGICAL INFORMATION

Acute Toxicity- Harmful if swallowed

| Component | CAS Number | Test | Toxicity |
|-----------------|------------|---------------|------------|
| Phosphoric Acid | 7664-38-2 | Oral LD50 Rat | 1530 mg/kg |

Potential Health Effects

| | |
|-------------|---|
| Inhalation: | Corrosive! Inhalation of vapors can cause coughing, choking, inflammation of the nose, throat, and upper respiratory tract, and in severe cases, pulmonary edema, circulatory failure, and death. |
| Skin: | Corrosive! Can cause redness, pain, and severe skin burns. Concentrated solutions can cause deep ulcers and discolor skin. |

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Eyes: Corrosive! Vapors are irritating and may cause damage to the eyes. Contact may cause severe burns and permanent eye damage.

Ingestion: Corrosive! Swallowing hydrochloric acid can cause immediate pain and burns of the mouth, throat, esophagus and gastrointestinal tract. May cause nausea, vomiting, and diarrhea. Swallowing may be fatal.

Signs and Symptoms of Exposure: Stomach pain and vomiting

Chronic Effects of Long Term Exposure: Overexposure to fluoride can cause calcification of bones

Carcinogenicity: Not a carcinogen

12. ECOLOGICAL INFORMATION

Acute Ecotoxicity

| Component | CAS Number | Organism | Ecotoxicity |
|-----------------|------------|----------|-------------|
| Phosphoric Acid | 7664-38-2 | N/A | |

Ecological Effects

Persistence and Degradability: When released into soil, material will leach into ground water.

Bioaccumulation Potential: No further relevant material available

Mobility in Soil: Leach readily into soil

Other Adverse Effects:

13. DISPOSAL CONSIDERATIONS

Disposal: Material should be disposed in accordance with all local, state, and federal regulations. Regulations vary by region.

Contaminated Packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT Information

Proper Shipping Name: Corrosive Liquids, N.O.S
UN Number: UN1760
Hazard Class: 8
Packing Group: PGII
Reportable Quantity (RQ): 5000#
Marine Pollutant: No
Note:

15. REGULATORY INFORMATION

US Federal

SARA 302 Components: None
SARA 311/312 Hazards: Acute health
SARA 313 Components: None
TSCA Inventory: Yes

European Union

EC Inventory: Yes

State Regulations

Utah Clean Air: Yes

16. OTHER INFORMATION

SDS Version: 1.0
Revision Date: 05/05/2015
Supercedes: New to GHS

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or the completeness of the information contained herein.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

NuTech Specialites, Inc.

Validated on:

Product: Descaler P