SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
Product form : Mixture
Product name : Phosphoric Acid 80-85% DAB
Product code : DAB80, DAB80B, DAB80CF, DAB80CFX, DAB80LC, DAB80X, DAB85, DAB85CF, DAB85CFX, DAB85X
Formula : H₃PO₄
Synonyms : None identified

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture : Aluminum brightener

1.3. Details of the supplier of the safety data sheet
PCS Sales (USA), Inc.
1101 Skokie Blvd.
Suite 400
Northbrook, IL 60062
T 800-241-6908 / 847-849-4200

Suite 500
122 1st Avenue South
Saskatoon, Saskatchewan Canada S7K7G3
T 800-667-0403 (Canada) / 800-667-3930 (USA)

SDS@PotashCorp.com - www.PotashCorp.com

1.4. Emergency telephone number
Emergency number : 800-424-9300
CHEMTREC

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
GHS-US classification
Acute Tox. 4 (Oral) H302
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335
Aquatic Acute 2 H401

2.2. Label elements
GHS-US labelling
Hazard pictograms (GHS-US) : 

GHS05  GHS07
Phosphoric Acid 80-85% DAB
Safety Data Sheet 223

Signal word (GHS-US): Danger
Hazard statements (GHS-US): H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H335 - May cause respiratory irritation
H401 – Toxic to aquatic life

Precautionary statements (GHS-US): P260 - Do not breathe fume, mist, vapours, spray
P264 - Wash hands and forearms thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear eye protection, face protection, protective gloves, protective clothing
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 person to fresh air and keep 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
P310 - Immediately call a POISON CENTER or doctor
P314 - Get medical advice/attention if you feel unwell
P363 - Wash contaminated clothing before reuse
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P405 - Store locked up
P501 - Dispose of contents/container according to local, regional, national, and international regulations

2.3. Other hazards
Hazardous to the aquatic environment
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>GHS-US classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphoric acid</td>
<td>(CAS No.) 7664-38-2</td>
<td>80 - 85</td>
<td>Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 2, H401</td>
</tr>
<tr>
<td>Ammonium phosphate, monobasic</td>
<td>(CAS No.) 7722-76-1</td>
<td>3 - 7</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335</td>
</tr>
</tbody>
</table>

Note: DAB80, DAB80B, DAB80CFX, DAB80LC, and DAB80X - Typical Nutrient Strength is 58% (as P₂O₅) and total H₃PO₄ is 80%
**Phosphoric Acid 80-85% DAB**

Safety Data Sheet 223

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**Note:**  
*DAB85, DAB85CF, DAB85CFX, and DAB85X - Typical Nutrient Strength is 61.60% (as P₂O₅) and total H₃PO₄ is 85%*

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<table>
<thead>
<tr>
<th>First-aid measures general</th>
<th>IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible).</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-aid measures after inhalation</td>
<td>Using proper respiratory protection, immediately move the exposed person to fresh air. Keep at rest and in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. Seek immediate medical advice. Symptoms may be delayed.</td>
</tr>
<tr>
<td>First-aid measures after skin contact</td>
<td>Remove/Take off immediately all contaminated clothing. Rinse immediately with plenty of water (for at least 15 minutes). Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or persists. Wash contaminated clothing before reuse.</td>
</tr>
<tr>
<td>First-aid measures after eye contact</td>
<td>Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Seek medical attention immediately if exposure is severe. Obtain medical attention if irritation develops or persists.</td>
</tr>
<tr>
<td>First-aid measures after ingestion</td>
<td>If swallowed, do not induce vomiting. Seek medical advice immediately and show this container or label.</td>
</tr>
</tbody>
</table>

#### 4.2. Most important symptoms and effects, both acute and delayed

<table>
<thead>
<tr>
<th>Symptoms/injuries</th>
<th>Corrosive. Causes burns. Harmful if swallowed.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Symptoms/injuries after inhalation</td>
<td>Causes severe respiratory irritation if inhaled. Symptoms may include: Burning of nose and throat, constriction of airway, difficulty breathing, shortness of breath, bronchial spasms, chest pain, and pink frothy sputum. Contact may cause immediate severe irritation progressing quickly to chemical burns. May cause pulmonary edema. Symptoms may be delayed.</td>
</tr>
<tr>
<td>Symptoms/injuries after skin contact</td>
<td>Contact may cause immediate severe irritation progressing quickly to chemical burns.</td>
</tr>
<tr>
<td>Symptoms/injuries after eye contact</td>
<td>Contact may cause immediate severe irritation progressing quickly to chemical burns. Can cause blindness.</td>
</tr>
<tr>
<td>Symptoms/injuries after ingestion</td>
<td>May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. Swallowing a small quantity of this material will result in serious health hazard.</td>
</tr>
<tr>
<td>Chronic symptoms</td>
<td>Repeated or prolonged inhalation may damage lungs. Prolonged and repeated contact will eventually cause permanent tissue damage and effects such as erosion of teeth, lesions on the skin, tracheo-bronchitis, mouth inflammation, conjunctivitis, and gastritis.</td>
</tr>
</tbody>
</table>

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

| Suitable extinguishing media | Use extinguishing media appropriate for surrounding fire. |
5.2. Special hazards arising from the substance or mixture

Fire hazard: Not flammable. Under conditions of fire this material may produce: Oxides of phosphorus; Nitrogen oxides; Phosphine

Explosion hazard: Product is not explosive.

5.3. Advice for firefighters

Firefighting instructions: Keep upwind. Use water spray or fog for cooling exposed containers. If water is added to concentrated acid, violent splattering can occur, and considerable heat may be generated. Cool non-leaking, fire-exposed containers with water spray.

Protection during firefighting: Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products.

Other information: Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.


6.1.2. For emergency responders

Protective equipment: Use recommended respiratory protection. Wear suitable protective clothing, gloves and eye/face protection.


6.2. Environmental precautions

If spill could potentially enter any waterway, including intermittent dry creeks, contact the U.S. COAST GUARD NATIONAL RESPONSE CENTER at 800-424-8802. In case of accident or road spill notify CHEMTREC at 800-424-9300. In other countries call CHEMTREC at (International code) +1-703-527-3887.

6.3. Methods and material for containment and cleaning up

For containment: Contain any spills with dikes or inert absorbents to prevent migration and entry into sewers or streams. Do not allow into drains or water courses or dispose of where ground or surface waters may be affected.
Methods for cleaning up: Ventilate area. Small quantities of liquid spill: take up in non-combustible inert absorbent material and shovel into container for disposal. Collect absorbed material and place into a sealed, labelled container to be disposed at an appropriate disposal facility according to current applicable laws and regulations and product characteristics at the time of disposal.

Liquid spill: neutralize with powdered limestone or sodium bicarbonate. Practice good housekeeping – spillage can be slippery on smooth surface either wet or dry.

6.4. Reference to other sections
No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Precautions for safe handling: Avoid all eye and skin contact and do not breathe vapour and mist. Wear recommended personal protective equipment. Ensure there is adequate ventilation. Keep away from heat and sources of ignition. Employ good maintenance practices to prevent leaks. Use good process control measures to prevent releases. Do not add water to acid. When diluting, always add acid to water. Causes severe burns.

Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in dry, cool area. Store in a well-ventilated place. Keep away from combustible materials. Diking of storage tanks is recommended.

Incompatible materials: Avoid contact with combustibles and reactive materials.

Prohibitions on mixed storage: Keep away from (strong) bases.

Storage area: Store in dry, cool area. Store in a well-ventilated place. Keep away from combustible materials.

7.3. Specific end use(s)
Aluminum brightener

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>USA ACGIH</th>
<th>USA NIOSH</th>
<th>USA NIOSH</th>
<th>USA OSHA</th>
<th>Alberta</th>
<th>British Columbia</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA / STEL</td>
<td>IDLH</td>
<td>TWA / STEL</td>
<td>TWA</td>
<td>TWA / STEL</td>
<td>TWA / STEL</td>
</tr>
<tr>
<td>Phosphoric acid (7664-38-2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
<td>1000 mg/m³</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
<td>1 mg/m³</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
</tbody>
</table>
**8.2. Exposure controls**

**Appropriate engineering controls**: Provide sufficient ventilation to keep vapors below the permissible exposure limit. Ensure adequate ventilation, especially in confined areas. Packaging and unloading areas and open processing equipment may require mechanical exhaust systems. Corrosion-proof construction recommended.

**Personal protective equipment**: Protective goggles. Face shield. Gas mask at concentration in the air >> TLV. Protective clothing.

**Hand protection**: Impermeable protective gloves, such as: nitrile, neoprene, or PVC. Wear gauntlet gloves. Check glove manufacturer’s permeation / degradation information.

**Eye protection**: Chemical safety goggles and full face shield. Do not wear contact lenses. For increased protection, use supplied-air acid hood.

**Skin and body protection**: Wear suitable protective clothing. Wear acid-resistant suit with acid-resistant apron, boots.

**Respiratory protection**: Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits. Use respirator approved for acid fumes and mist.

**Environmental exposure controls**: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

---

**Phosphoric Acid (7664-38-2)**

<table>
<thead>
<tr>
<th>Province</th>
<th>TWA / STEL</th>
<th>Exposure Limit (TWA) / STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manitoba</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>New Brunswick</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Newfoundland &amp; Labrador</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Northwest Territories</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Nova Scotia</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Nunavut</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Ontario</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Prince Edward Island</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Quebec</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Saskatchewan</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 3 mg/m³ (STEL)</td>
</tr>
<tr>
<td>Yukon</td>
<td>TWA / STEL</td>
<td>1 mg/m³ (TWA), 1 mg/m³ (STEL)</td>
</tr>
</tbody>
</table>

---

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Physical state**: Liquid

**Appearance**: Clear

**Colour**: Colorless to bluish-green
### Odour
- Odour: Odorless

### pH
- pH: 1 – 1.5

### pH solution
- pH solution: 1 – 10 g/l

### Molecular mass
- Molecular mass: 98 g/mol (H₃PO₄)

### Relative evaporation rate
- Relative evaporation rate (butylacetate=1): No data available

### Melting point/Freezing point
- Melting point/Freezing point: 4.6 °C (40 °F) (80% H₃PO₄)  
21.1 °C (70 °F) (85% H₃PO₄)

### Boiling point
- Boiling point: 158 °C (316 °F)

### Boiling Point Range
- Boiling Point Range: (135 – 158) °C (275 - 316 °F)

### Flash point
- Flash point: No data available

### Self ignition temperature
- Self ignition temperature: No data available

### Decomposition temperature
- Decomposition temperature: No data available

### Flammability (solid, gas)
- Flammability (solid, gas): No data available

### Vapour pressure
- Vapour pressure: 2 - 4 mm Hg at 25 °C (77 °F)

### Relative vapour density at 20 °C
- Relative vapour density at 20 °C: No data available

### Relative density
- Relative density: 1.6 - 1.7 at 17.8 °C (64 °F)

### Bulk Density
- Bulk Density: 13 - 14 lb/gal

### Solubility
- Solubility: Water: Miscible

### Log Pow
- Log Pow: No data available

### Log Kow
- Log Kow: No data available

### Viscosity
- Viscosity: 33-47 cP at 20 °C  
16-23 cP at 40 °C

### Explosive properties
- Explosive properties: No data available

### Oxidising properties
- Oxidising properties: No data available

### Explosive limits
- Explosive limits: No data available

### Other information
No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity
Material is hygroscopic. Acidic liquids, such as this material, may react with metals and release hydrogen gas.

### 10.2. Chemical stability
Stable at standard temperature and pressure.

### 10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

### 10.4. Conditions to avoid
Protect from moisture. Avoid high temperatures.
10.5. Incompatible materials
Avoid contact with bases, aluminum, copper, mild steel, brass, and bronze.

10.6. Hazardous decomposition products
Under conditions of fire this material may produce: Oxides of phosphorus; Phosphine; Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Harmful if swallowed.

<table>
<thead>
<tr>
<th>Phosphoric acid (7664-38-2)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1530 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>2730 mg/kg</td>
</tr>
<tr>
<td>LC50 inhalation rat (mg/l)</td>
<td>&gt; 850 mg/m³ (Exposure time: 1 h)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monoammonium phosphate (7722-76-1)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>5750 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>&gt; 7940 mg/kg</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

SECTION 12: Ecological information

12.1. Toxicity

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>EPA Ecological Toxicity rating</th>
<th>Acute Toxicity to Fish:</th>
<th>Chronic Toxicity to Fish:</th>
<th>Acute Toxicity to Aquatic:</th>
<th>Chronic Toxicity to Aquatic Invertebrates:</th>
<th>Acute Toxicity to Aquatic Plants:</th>
<th>Toxicity to Bacteria:</th>
<th>Toxicity to Soil Dwelling:</th>
<th>Toxicity to Terrestrial Plants:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(L. macrochirus (bluegill sunfish)) 96-hr static: LC50 = pH 3.0–3.5.</td>
<td>Mosquito fish: LD50=138 mg/L; 96 hours (CAS# 7664-38-2)</td>
<td>(Daphnia magna) 12-hr static: EC50 = pH 4.6; (Daphnia pulex) 12-hr static: EC50 = pH 4.1; (Gammarus pulex) 12-hr static: LC50 = pH 3.4.</td>
<td>No data available</td>
<td>Dangerous to aquatic plants at high concentrations.</td>
<td>(Activated Sludge): EC50 = pH 2.55.</td>
<td>No data available</td>
<td>(Peas, beans, beets, rapeseed and weeds) Sprayed with 15-20% solution of H₃PO₄: Foliage was destroyed on all plants.</td>
</tr>
</tbody>
</table>
Environmental Fate:

| Stability in Water:                  | Ionic dissociation in water. |
| Stability in Soil:                   | Dissolves some soil material (carbonates). |
| Transport and Distribution:         | Under acidic soil conditions, sparsely soluble phosphates tend to solubilize and may migrate to water. |

Toxicity:

Inorganic phosphates have the potential to increase the growth of freshwater algae, whose eventual death will reduce the available oxygen for aquatic life.

Degradation Products:

| Biodegradation:                    | Under anaerobic conditions, microorganisms may degrade the product to phoshpine. |
| Photodegradation:                  | No data available |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations: This material may be hazardous to the aquatic environment. Keep out of sewers and waterways.

Waste disposal recommendations: Place in an appropriate container and dispose of contaminated material at a licensed site.

Additional information: Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : 1805
DOT NA no. : UN1805

14.2. UN proper shipping name

DOT Proper Shipping Name : Phosphoric Acid Solution
Department of Transportation (DOT) Hazard Classes : 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT) : 8 - Corrosive substances

Packing group (DOT) : III - Minor Danger
DOT Special Provisions (49 CFR 172.102):

- **A7** - Steel packagings must be corrosion-resistant or have protection against corrosion.
- **IB3** - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
- **N34** - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material.
- **T4** - See Table (172.102(7))

TP1 - TP1: The maximum degree of filling must not exceed the degree of filling determined by the following:

\[
\text{Degree of filling} = \frac{97}{1 + \alpha (t_r - t_f)}
\]

Where:
- \( t_r \) is the maximum mean bulk temperature during transport, and
- \( t_f \) is the temperature in degrees celsius of the liquid during filling (For additional clarification, see 49 CFR 172.102(8)).

DOT Packaging Exceptions (49 CFR 173.xxx):
- 154

DOT Packaging Non Bulk (49 CFR 173.xxx):
- 203

DOT Packaging Bulk (49 CFR 173.xxx):
- 241

### 14.3. Additional information

Emergency Response Guide (ERG) Number:
- 154

Reportable Quantity:
- 5000 pounds (at 100% Phosphoric Acid)

Other information:
- No supplementary information available.

**Overland transport**

No additional information available.

**Transport by sea**

DOT Vessel Stowage Location:
- A - The material may be stowed “on deck” or “under deck” on a cargo vessel and on a passenger vessel.

**Air transport**

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27):
- 5 L
Phosphoric Acid 80-85% DAB
Safety Data Sheet 223

DOT Quantity Limitations Cargo : 60 L
aircraft only (49 CFR 175.75)
IATA ERG Number : 8L

SECTION 15: Regulatory information

15.1. US Federal regulations

<table>
<thead>
<tr>
<th>Phosphoric Acid 80-85% DAB</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA Section 311/312 Hazard Classes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Phosphoric acid (7664-38-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Monoammonium phosphate (7722-76-1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Listed on the United States TSCA (Toxic Substances Control Act) inventory</td>
</tr>
</tbody>
</table>

15.2. US State regulations

The following states have an OSH program approved by OSHA. If you are located in any of these states you may be under state jurisdiction rather than federal jurisdiction and your state may have more stringent requirements than OSHA. You should consult your state regulations to ensure compliance.

<table>
<thead>
<tr>
<th>Alaska</th>
<th>Indiana</th>
<th>Minnesota</th>
<th>North Carolina</th>
<th>Utah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arizona</td>
<td>Iowa</td>
<td>Nevada</td>
<td>Oregon</td>
<td>Vermont</td>
</tr>
<tr>
<td>California</td>
<td>Kentucky</td>
<td>New Mexico</td>
<td>Puerto Rico</td>
<td>Virgin Islands</td>
</tr>
<tr>
<td>*Connecticut</td>
<td>Maryland</td>
<td>*New Jersey</td>
<td>South Carolina</td>
<td>Virginia</td>
</tr>
<tr>
<td>Hawaii</td>
<td>Michigan</td>
<td>*New York</td>
<td>Tennessee</td>
<td>Washington</td>
</tr>
<tr>
<td>*Illinois</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The state plans in these states apply only to public sector employers. In these states private sector employers are subject to USOL – OSHA jurisdiction. All other state plans apply to both public and private sector employers.

<table>
<thead>
<tr>
<th>Phosphoric acid (7664-38-2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. - California - SCAQMD - Toxic Air Contaminants - Non-Cancer Chronic</td>
</tr>
<tr>
<td>U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)</td>
</tr>
<tr>
<td>U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)</td>
</tr>
<tr>
<td>U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)</td>
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<td>U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities</td>
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<td>U.S. - Hawaii - Occupational Exposure Limits - STELs</td>
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<td>U.S. - Hawaii - Occupational Exposure Limits - TWAs</td>
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<td>U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations</td>
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<td>U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)</td>
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<td>U.S. - Idaho - Occupational Exposure Limits - TWAs</td>
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<td>U.S. - Louisiana - Reportable Quantity List for Pollutants</td>
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<td>U.S. - Massachusetts - Allowable Ambient Limits (AALs)</td>
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<td>U.S. - Massachusetts - Allowable Threshold Concentrations (ATCs)</td>
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<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 1</td>
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<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Groundwater Reportable Conc. - Reporting Category 2</td>
</tr>
<tr>
<td>U.S. - Massachusetts - Oil &amp; Hazardous Material List - Reportable Quantity</td>
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Phosphoric Acid 80-85% DAB
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U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - Massachusetts - Threshold Effects Exposure Limits (TELs)
U.S. - Massachusetts - Toxics Use Reduction Act
U.S. - Michigan - Occupational Exposure Limits - STELs
U.S. - Michigan - Occupational Exposure Limits - TWAs
U.S. - Michigan - Polluting Materials List
U.S. - Minnesota - Chemicals of High Concern
U.S. - Minnesota - Hazardous Substance List
U.S. - Minnesota - Permissible Exposure Limits - STELs
U.S. - Minnesota - Permissible Exposure Limits - TWAs
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - New Jersey - Discharge Prevention - List of Hazardous Substances
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - New York - Occupational Exposure Limits - TWAs
U.S. - New York - Reporting of Releases Part 597 - List of Hazardous Substances
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
U.S. - Oregon - Permissible Exposure Limits - TWAs
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U.S. - Pennsylvania - RTK (Right to Know) List
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U.S. - South Carolina - Toxic Air Pollutants - Maximum Allowable Concentrations
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U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Height 25 Ft to Less Than 40 Ft
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U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or Greater
U.S. - Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet

Monoammonium phosphate (7722-76-1)
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

15.3. Canadian regulations

Phosphoric Acid 80-85% DAB

| WHMIS Classification | Class E - Corrosive Material |
Phosphoric Acid 80-85% DAB
Safety Data Sheet

**Phosphoric acid (7664-38-2)**
Listed on the Canadian DSL (Domestic Sustances List) inventory.
Listed on the Canadian Ingredient Disclosure List – Disclosure at 1%
WHMIS Classification | Class E - Corrosive Material

**Monoammonium phosphate (7722-76-1)**
Listed on the Canadian DSL (Domestic Sustances List) inventory.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>NFPA health hazard</th>
<th>3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.</th>
</tr>
</thead>
<tbody>
<tr>
<td>NFPA fire hazard</td>
<td>0 - Materials that will not burn.</td>
</tr>
<tr>
<td>NFPA reactivity</td>
<td>0 - Normally stable, even under fire exposure conditions, and are not reactive with water.</td>
</tr>
</tbody>
</table>

Full text of H-phrases:

<table>
<thead>
<tr>
<th>Acute Tox. 4 (Oral)</th>
<th>Acute toxicity (oral) Category 4</th>
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<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - Acute Hazard Category 2</td>
</tr>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity Category 1A</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation Category 1</td>
</tr>
<tr>
<td>Eye Irrit. 2B</td>
<td>Serious eye damage/eye irritation Category 2B</td>
</tr>
<tr>
<td>Skin Corr. 1A</td>
<td>Skin corrosion/irritation Category 1A</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H302</td>
<td>Harmful if swallowed</td>
</tr>
<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H318</td>
<td>Causes serious eye damage</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
</tbody>
</table>

**Previous PotashCorp MSDS Number** | MSDS 72 – Phosphoric Acid 80 -85% DAB
**Logo Change** | No other information changes; kept same date

SDS US (GHS HazCom 2012)

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