

## Section 1. Identification

**Product identifier** : Phosphoric Acid 80 - 85% DAB  
**SDS #** : 223  
**Other means of identification**  
**Synonyms** : Bright Dip, R5, Non-Sulfuric Bright Dip  
**Product code(s)** : DAB80, DAB80B, DAB80CF, DAB80CFX, DAB80LC, DAB80X, DAB85, DAB85CF, DAB85CFX, DAB85X  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b> Aluminum brightener.	
<b>Uses advised against</b> Consumer use	<b>Reason</b> Risk assessment.

**Supplier's details** : PCS Sales (USA), Inc. (A Subsidiary of Nutrien Ltd.)  
Suite 150  
500 Lake Cook Road  
Deerfield, IL 60015  
United States  
  
PCS Sales (Canada), Inc. (A Subsidiary of Nutrien Ltd.)  
Suite 500  
122 1st Avenue South  
Saskatoon, Saskatchewan S7K 7G3  
Canada  
  
Company phone number (North America):  
1-800-524-0132 (Customer Service)  
  
sds@nutrien.com - www.nutrien.com

**Emergency telephone number (with hours of operation)** : Nutrien North American  
24 HOUR EMERGENCY TELEPHONE NUMBERS:  
  
English:  
Transportation Emergencies: 1-800-792-8311  
Medical Emergencies: 1-303-389-1653  
  
French or Spanish:  
Transportation or Medical Emergencies: 1-303-389-1654

## Section 2. Hazard identification

**Classification of the substance or mixture** : CORROSIVE TO METALS - Category 1  
SKIN CORROSION - Category 1B  
SERIOUS EYE DAMAGE - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS label elements

**Date of issue/Date of revision** : 3/31/2021 **Date of previous issue** : 9/12/2019 **Version** : 2.1 1/15

## Section 2. Hazard identification

### Hazard pictograms

:



### Signal word

: Danger

### Hazard statements

: May be corrosive to metals.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.

### Precautionary statements

#### General

: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

#### Prevention

: Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep only in original packaging. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

#### Response

: Absorb spillage to prevent material damage.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician.  
IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

#### Storage

: Store locked up. Store in a corrosion resistant container with a resistant inner liner.

#### Disposal

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

### Supplemental label elements

: None known.

**Other hazards which do not result in classification** : None known.

## Section 3. Composition/information on ingredients

### Substance/mixture

: Mixture

Ingredient name	% (w/w)	CAS number
Orthophosphoric acid	80 - 85	7664-38-2
Water	8 - 17	7732-18-5
Ammonium dihydrogenorthophosphate	3 - 7	7722-76-1

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

### Description of necessary first aid measures

#### Eye contact

: CORROSIVE. Begin eye irrigation immediately. All eye exposures to acid require medical evaluation following decontamination. Immediately rinse eyes with large quantities of water or saline for a minimum of 20-30 minutes depending on severity of exposure. If possible, remove contact lenses being careful not to cause additional eye damage. If the initial water supply is insufficient, keep the affected area wet with a moist cloth and transfer the person to the nearest place where rinsing can be continued for the recommended length of time. Call an ambulance for transport to hospital. Continue eye irrigation during transport. For additional

## Section 4. First-aid measures

advice call the medical emergency number on this safety data sheet or your poison center or doctor.

### Inhalation

- : CORROSIVE. If mists or vapors are present in unknown or excessive concentrations, rescuers must wear appropriate respiratory protection and a suit resistant to acids (Level B or C). REMOVE PERSON TO FRESH AIR. Watch closely for signs of wheezing and breathing difficulties. Maintain an open airway. If not breathing, begin CPR. Oxygen may be administered by trained personnel. Affected persons who have stopped breathing or are having difficulty breathing or are unconscious need immediate medical attention. Call an ambulance for transport to hospital. For additional advice call the medical emergency number on this SDS or your poison center or doctor.

### Skin contact

- : CORROSIVE. Causes severe burns. Immediately begin rinsing the affected areas with water. Remove contaminated clothing and shoes. Affected areas should be rinsed for a minimum of 20 - 30 minutes or longer depending on severity of exposure. Luke-warm water is recommended for continued irrigation to prevent hypothermia. Conscious persons without breathing difficulties may benefit from prolonged irrigation in a fixed shower or bathing facility prior to hospital transport. Call an ambulance for transport to hospital. Continue skin irrigation during transport. For additional advice call the medical emergency number on this safety data sheet or your poison center or doctor.

### Ingestion

- : CORROSIVE. May cause severe burns to the mouth, throat, and stomach. If the affected person requires cardiopulmonary resuscitation, avoid mouth to mouth contact. Do not induce vomiting. If vomiting occurs, attempt to keep head lower than the chest so that vomit does not enter the lungs. Wash face and mouth with water to remove visible material. If the exposed person is conscious and can swallow, give 1-2 sips of water. Do not give anything else by mouth. Loosen tight clothing such as collar, tie, belt or waistband to prevent any breathing restrictions. For signs of breathing difficulties, refer to the INHALATION section. Call an ambulance for transportation to hospital. For additional advice, call the medical emergency number on this safety data sheet or your poison center or doctor.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye damage. Corrosive to eyes on contact.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Corrosive to the skin. Causes severe burns.
- Ingestion** : Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
throat and stomach pain  
difficulty swallowing  
nausea or vomiting

### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First-aid measures

- Notes to physician** : Phosphoric acid is an acid which may cause coagulative necrosis. Treatment is symptomatic and supportive. The extent of injury depends on duration of exposure and concentration of liquid. Do not attempt to use chemicals to neutralize the exposure. 24 Hr Medical Emergency telephone number for professional support - From Canada or the U.S., English: 1-303-389-1653; French or Spanish: 1-303-389-1654. From all other countries, English: 00-1-303-389-1653; French or Spanish: 00-1-303-389-1654.
- Specific treatments** : Outcomes can be improved by minimizing time to decontamination and extending decontamination times to reduce tissue damage. Expert opinion indicates extended decontamination is required to remove corrosive chemicals. Skin and eye decontamination should be performed for a minimum of 20 - 30 minutes. Extended decontamination times may be required depending on the exposure. To avoid hypothermia, irrigation water should be maintained at a comfortable temperature. If the patient is not in extremis, it may be necessary to delay transport to emergency care facilities to ensure adequate decontamination time. However, early patient transport may be necessary depending on patient's condition or the availability of water. If possible, continue skin and/or eye irrigation during emergency medical transport. Double-bag contaminated clothing and personal belongings of the patient.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. Depending on the situation, the rescuer should wear an appropriate mask, gloves, protective clothing and a respirator or self-contained breathing apparatus. Mouth-to-mouth resuscitation of oral exposure patients is not recommended. First-aiders with contaminated clothing should be properly decontaminated.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Non-flammable. Material will not burn. Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### Specific hazards arising from the chemical

- : In a fire or if heated, a pressure increase will occur and the container may burst. Reacts violently with water. Will react with water or steam to produce heat and corrosive fumes. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Flammable concentrations of vapor may accumulate in the headspace of containers.

### Hazardous thermal decomposition products

- : Decomposition products may include the following materials:  
acidic corrosive material

### Special protective actions for fire-fighters

- : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### Special protective equipment 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.

### Remark

- : Contain and collect the water used to fight the fire for later treatment and disposal.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : 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. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Refer to Emergency Response Guidebook, Guide 154 for further information regarding spill control and Isolation/Protective Action Distances Guidelines.

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Put on appropriate personal protective equipment (see Section 8). Stop leak if without risk. Move containers from spill area. Neutralize acids by applying basic substances (soda ash or lime) or use an acid spill kit. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Put on appropriate personal protective equipment (see Section 8). Approach release from upwind. Stop leak if without risk. Prevent entry into sewers, water courses, basements or confined areas. Move containers from spill area. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide.

Place spilled material in an appropriate container for disposal. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Absorb spillage to prevent material damage.
- Advice on general occupational hygiene** : 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. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. 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. Store in a corrosion resistant container with a resistant inner liner. Store locked up. Separate from alkalis. 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

## Section 7. Handling and storage

contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<b>Canadian Regulations</b> Orthophosphoric acid	<b>CA Alberta Provincial:</b> (Canada, 4/2009). 15 min OEL: 3 mg/m <sup>3</sup> 15 minutes. 8 hrs OEL: 1 mg/m <sup>3</sup> 8 hours. <b>British Columbia Provincial:</b> (Canada, 4/2014). TWA: 1 mg/m <sup>3</sup> 8 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes. <b>CA Ontario Provincial (Canada, 1/2013).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes. <b>CA Quebec Provincial.</b> (Canada, 1/2014). TWA EV: 1 mg/m <sup>3</sup> 8 hours. STEV: 3 mg/m <sup>3</sup> 15 minutes.
<b>U.S. Federal Regulations</b> Orthophosphoric acid	<b>ACGIH TLV (United States, 4/2014).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 1 mg/m <sup>3</sup> 8 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes. <b>NIOSH REL (United States, 10/2013).</b> TWA: 1 mg/m <sup>3</sup> 10 hours. STEL: 3 mg/m <sup>3</sup> 15 minutes. <b>OSHA PEL (United States, 2/2013).</b> TWA: 1 mg/m <sup>3</sup> 8 hours.
Water Ammonium phosphate	None assigned. None assigned.

**Appropriate engineering controls** : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene 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.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.



## Section 8. Exposure controls/personal protection

### Skin protection

**Hand protection** : 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. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. Recommended:  
butyl rubber  
nitrile rubber  
neoprene rubber  
PVC  
Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: chemical-resistant protective suit  
Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Impervious rubber safety boots. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

## Section 9. Physical and chemical properties

### Appearance

**Physical state** : Liquid. [Clear to slightly hazy liquid.]

**Color** : Colorless to light blue/green.

**Odor** : Odorless.

**Odor threshold** : Not available.

**pH** : 1 to 1.5

**Melting point** : 4 to 21°C (39.2 to 69.8°F)

**Boiling point** : 135 to 158°C (275 to 316.4°F)

**Flash point** : Not applicable.

**Evaporation rate** : Not available.

**Flammability (solid, gas)** : Non-flammable. Material will not burn.

**Lower and upper explosive (flammable) limits** : Not applicable. Non-flammable substance. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Flammable concentrations of vapor may accumulate in the headspace of containers.

**Vapor pressure** : 0.27 to 0.53 kPa (2 to 4 mm Hg) [room temperature]

**Vapor density** : Not available.

**Relative density** : 1.6 to 1.7

**Solubility** : Easily soluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not applicable.

**Decomposition temperature** : Not available.

**Viscosity** : Dynamic (room temperature): 33 to 47 mPa·s (33 to 47 cP)

## Section 10. Stability and reactivity

- Reactivity** : Reactive or incompatible with the following materials:  
Reacts violently with bases.  
May be corrosive to metals. Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.  
This product should be stored away from oxidizing materials and strong bases.
- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data. This product should be stored away from oxidizing materials and strong bases. Refer to NFPA 400 Hazardous Materials Code for further information on the safe storage and handling of hazardous materials.
- Incompatible materials** : Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air.  
Reactive or incompatible with the following materials:  
alkalis  
metals
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Orthophosphoric acid	LD50 Oral	Rat	1.25 g/kg	-

**Conclusion/Summary** : Not considered to be acutely toxic. Corrosive to the digestive tract.

#### Irritation/Corrosion

Not available.

#### Conclusion/Summary

- Skin** : Corrosive to the skin.
- Eyes** : Corrosive to eyes.
- Respiratory** : May cause respiratory irritation.

#### Sensitization

Not available.

#### Conclusion/Summary

- Skin** : No known significant effects or critical hazards.
- Respiratory** : No known significant effects or critical hazards.

#### Mutagenicity

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Carcinogenicity

Not available.

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Reproductive toxicity



## Section 11. Toxicological information

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Phosphoric Acid 80 - 85% DAB	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Inhalation (mists)  
Skin contact

### Potential acute health effects

**Eye contact** : Causes serious eye damage. Corrosive to eyes on contact.  
**Inhalation** : May cause respiratory irritation.  
**Skin contact** : Corrosive to the skin. Causes severe burns.  
**Ingestion** : Corrosive to the digestive tract. May cause burns to the mouth, throat and stomach.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness  
**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
**Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
**Ingestion** : Adverse symptoms may include the following:  
throat and stomach pain  
difficulty swallowing  
nausea or vomiting

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : See above.  
**Potential delayed effects** : See above.

#### Long term exposure

**Potential immediate effects** : See above.  
**Potential delayed effects** : See below.

### Potential chronic health effects

**Conclusion/Summary** : Adverse effects are typically the result of acute overexposure. These effects may be long term or permanent in nature.

## Section 11. Toxicological information

<b>General</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
Orthophosphoric acid	Acute EC50 105 ppm Fresh water Acute LC50 60 ppm Fresh water	Daphnia - Daphnia magna Fish - Lepomis macrochirus	48 hours 96 hours

**Conclusion/Summary** : May be harmful to the environment if released in large quantities.

### Persistence and degradability

**Conclusion/Summary** : Not persistent. Readily biodegradable

### Bioaccumulative potential

Not available.

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations






**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	<b>TDG Classification</b>	<b>DOT Classification</b>	<b>Mexico Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN number</b>	UN1805	UN1805	UN1805	UN1805	UN1805
<b>UN proper shipping name</b>	Phosphoric acid solution	Phosphoric acid solution	Phosphoric acid solution	Phosphoric acid solution	Phosphoric acid solution

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## Section 14. Transport information

<b>Transport hazard class(es)</b>	8 	8 	8 	8 	8 
<b>Packing group</b>	III	III	III	III	III
<b>Environmental hazards</b>	No.	No.	No.	No.	No.
<b>Additional information</b>	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8). <b><u>Explosive Limit and Limited Quantity Index</u></b> 5 <b><u>Passenger Carrying Road or Rail Index</u></b> 5	<b><u>Reportable quantity</u></b> 6060.6 lbs / 2751.5 kg [440.53 gal / 1667.6 L]. Packages of less than the reportable quantity are not subject to Hazmat transportation requirements. <b><u>Packaging instruction</u></b> Exceptions: 154. Non-bulk: 203. Bulk: 241. <b><u>Quantity limitation</u></b> Passenger aircraft/rail: 5 L. Cargo aircraft: 60 L. <b><u>Special provisions</u></b> A7, IB3, N34, T4, TP1	<b><u>Special provisions</u></b> 223	<b><u>Emergency schedules</u></b> F-A, S-B <b><u>Special provisions</u></b> 223	-

**Special precautions for user :** **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code :** Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI :** The following components are listed: Phosphorus (total); Ammonia (total)

**CEPA Toxic substances :** None of the components are listed.

**Canada inventory :** All components are listed or exempted.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

## Section 15. Regulatory information

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <b>Japan inventory (ENCS)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: All components are listed or exempted.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Turkey</b>	: Not determined.

<b><u>U.S. Federal Regulations</u></b>	: <b>TSCA 8(a) CDR Exempt/Partial exemption</b> : Not determined <b>TSCA 8(b) Active inventory</b> : All components are listed or exempted. <b>Clean Water Act (CWA) 311</b> : Phosphoric acid, solid
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**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Not listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304 Composition/information on ingredients

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : Immediate (acute) health hazard

### Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard.
Orthophosphoric acid	≥75 - ≤90	No.	No.	No.	Yes.	No.


### SARA 313

## Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	ammonium dihydrogenorthophosphate	7722-76-1	3 - 7
Supplier notification	ammonium dihydrogenorthophosphate	7722-76-1	3 - 7

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

- Massachusetts** : The following components are listed: PHOSPHORIC ACID  
**New York** : The following components are listed: Phosphoric acid  
**New Jersey** : The following components are listed: PHOSPHORIC ACID  
**Pennsylvania** : The following components are listed: PHOSPHORIC ACID  
**California Prop. 65** :  **WARNING:** This product can expose you to chemicals including cadmium, which is known to the State of California to cause cancer and to cause birth defects or other reproductive harm. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## Section 16. Other information

### History

**Date of issue/Date of revision** : 3/31/2021

**Date of previous issue** : 9/12/2019

**Version** : 2.1

 Indicates information that has changed from previously issued version.

- Key to abbreviations** :
- ATE = Acute Toxicity Estimate
  - BCF = Bioconcentration Factor
  - GHS = Globally Harmonized System of Classification and Labelling of Chemicals
  - IATA = International Air Transport Association
  - IBC = Intermediate Bulk Container
  - IMDG = International Maritime Dangerous Goods
  - LogPow = logarithm of the octanol/water partition coefficient
  - MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
  - UN = United Nations
  - HPR = Hazardous Products Regulations

### Procedure used to derive the classification

Classification	Justification
CORROSIVE TO METALS - Category 1	Weight of evidence
SKIN CORROSION - Category 1B	Weight of evidence
SERIOUS EYE DAMAGE - Category 1	Weight of evidence
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3	Weight of evidence

- References** :
- Transportation of Dangerous Goods Act and Clear Language Regulations, current edition at time of SDS preparation, Transport Canada;
  - Hazardous Products Act and Regulations, current revision at time of SDS preparation, Health Canada;
  - Domestic Substances List, current revision at time of SDS preparation, Environment Canada;
  - 29 CFR Part 1910, current revision at time of SDS preparation, U.S. Occupational Safety and Health Administration;
  - 40 CFR Parts 1-799, current revision at time of SDS preparation, U.S. Environmental Protection Agency;
  - 49 CFR Parts 1-199, current revision at time of SDS preparation, U.S. Department

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of Transport;  
 Mexican Official Standard NOM-018-STPS-2015, Harmonised System for the Identification and Communication of Hazards and Risks by Hazardous Chemicals in the Workplace;  
 NORMA Oficial Mexicana NOM-010-STPS-2014, Agentes químicos contaminantes del ambiente laboral-Reconocimiento, evaluación y control.  
 Mexican Official Standard NOM-002-SCT / 2011, List of the most commonly transported hazardous substances and materials;  
 Threshold Limit Values for Chemical Substances, current edition at time of SDS preparation, American Conference of Governmental Industrial Hygienists;  
 NFPA 400, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;  
 NFPA 704, National Fire Codes, National Fire Protection Association, current edition at time of SDS preparation;  
 Corrosion Data Survey, Sixth Edition, 1985, National Association of Corrosion Engineers;  
 ERG 2016, Emergency Response Guidebook, U.S. Department of Transport, Transport Canada, and the Secretariat of Transportation and Communications of Mexico  
 Hazardous Substances Data Bank, current revision at time of SDS preparation, National Library of Medicine, Bethesda, Maryland  
 Integrated Risk Information System, current revision at time of SDS preparation, U. S. Environmental Protection Agency, Washington, D.C.  
 Pocket Guide to Chemical Hazards, current revision at time of SDS preparation, National Institute for Occupational Safety and Health, Cincinnati, Ohio ;  
 Agency for Toxic Substances and Disease Registry Databank, current revision at time of SDS preparation, U.S. Department of Health and Human Services, Atlanta, Georgia  
 National Toxicology Program, Report on Carcinogens, Division of the National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina.  
 Registry of Toxic Effects of Chemical Substances. National Institute for Occupational Safety and Health, Cincinnati, Ohio  
 California Code of Regulations, Title 27, Div 4, Chapter 1, Proposition 65 Aug 30, 2018 rev and current updates  
 The Fertilizer Institute, Product Toxicology Testing Program Results, TFI, Washington , D.C., 2003

### Notice to reader

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

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