



Univar  
3075 Highland Pkwy STE 200  
Downers Grove, IL 60515  
425-889-3400

## SAFETY DATA SHEET

### 1. Identification

**Product identifier:** PHOSPHORIC ACID SOLUTION

**Other means of identification**

**SDS number:** 000100000143

**Recommended use and restriction on use**

**Recommended use:** Not available.

**Restrictions on use:** Not known.

**Emergency telephone number:**For emergency assistance Involving chemicals

call CHEMTREC day or night at: 1-800-424-9300. CHEMTREC INTERNATIONAL Tel# 703-527-3887

### 2. Hazard(s) identification

**Hazard classification**

**Health hazards**

Acute toxicity (Oral) Category 4

Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1

**Label elements**

**Hazard symbol**



**Signal word**

**Danger**

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<b>Hazard statement</b>	Corrosive. Harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May be corrosive to metals.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust or mists. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response</b>	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Specific treatment (see this label). Wash contaminated clothing before reuse.
<b>Storage</b>	Keep container tightly closed. Store in a well-ventilated place. Store in a dry place. Protect from sunlight. Store locked up.
<b>Disposal</b>	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
<b>Other hazards which do not result in GHS classification</b>	None.

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**3. Composition/information on ingredients**

**Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
Phosphoric Acid		7664-38-2	>=5 - <=95%
Water		7732-18-5	>=5 - <=95%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**4. First-aid measures**

**Ingestion:** Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. Perform artificial respiration if breathing has stopped. Get medical attention immediately.

**Skin contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

**Eye contact:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

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

**Symptoms:** No data available.

**Indication of immediate medical attention and special treatment needed**

**Treatment:** No data available.

**5. Fire-fighting measures**

**General fire hazards:** No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** No data available.

**Special protective equipment and precautions for firefighters**

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**Special fire fighting procedures:** No data available.

**Special protective equipment for fire-fighters:** No data available.

**6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures:** No data available.

**Methods and material for containment and cleaning up:** Absorb spillage with non-combustible, absorbent material. Dike for later disposal. Prevent runoff from entering drains, sewers, or streams.

**7. Handling and storage**

**Precautions for safe handling:** Use personal protective equipment as required. Container must be kept tightly closed. Use only with adequate ventilation. Never add water directly to this product - may cause vigorous reaction/boiling. Always dilute by carefully pouring the product into the water.

**Conditions for safe storage, including any incompatibilities:** No data available.

**8. Exposure controls/personal protection**

**Control parameters**

**Occupational exposure limits**

Chemical identity	Type	Exposure Limit values	Source
Phosphoric Acid	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (03 2013)
	STEL	3 mg/m3	US. ACGIH Threshold Limit Values (03 2013)
	REL	1 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	STEL	3 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	3 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

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	TWA	1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	1 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	STEL	3 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008)
	ST ESL	10 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	AN ESL	1 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (02 2013)
	TWA PEL	1 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)
	STEL	3 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (02 2012)

**Appropriate engineering controls** No data available.

**Individual protection measures, such as personal protective equipment**

**General information:** No data available.  
**Eye/face protection:** No data available.  
**Skin protection**  
     **Hand protection:** No data available.  
     **Other:** No data available.  
**Respiratory protection:** No data available.  
**Hygiene measures:** No data available.

**9. Physical and chemical properties**

**Physical state:** Liquid  
**Form:** No data available.  
**Color:** No data available.  
**Odor:** No data available.  
**Odor threshold:** No data available.  
**pH:** 1.5  
**Melting point/freezing point:** 21 °C

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<b>Initial boiling point and boiling range:</b>	158 °C
<b>Flash Point:</b>	No data available.
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Explosive limit - upper (%):</b>	No data available.
<b>Explosive limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

#### 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	No data available.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible materials:</b>	No data available.
<b>Hazardous decomposition products:</b>	No data available.

#### 11. Toxicological information

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

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.

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**Skin contact:** No data available.

**Eye contact:** No data available.

**Information on toxicological effects**

**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** ATEmix ( ): 1,578.947368 mg/kg

**Dermal**

**Product:** ATEmix ( ): 3,326.31579 mg/kg

**Inhalation**

**Product:** No data available.

**Specified substance(s):**

Phosphoric Acid LC 50 (Mouse, ): 25.5 mg/m<sup>3</sup> 4 (not assignable)

**Repeated dose toxicity**

**Product:** No data available.

**Skin corrosion/irritation**

**Product:** No data available.

**Serious eye damage/eye irritation**

**Product:** No data available.

**Respiratory or skin sensitization**

**Product:** No data available.

**Carcinogenicity**

**Product:** No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:**

No carcinogenic components identified

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**

No carcinogenic components identified

**Germ cell mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specific target organ toxicity - repeated exposure**

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**Product:** No data available.  
**Aspiration hazard**  
**Product:** No data available.  
**Other effects:** No data available.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic invertebrates

**Product:** No data available.

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and degradability

#### Biodegradation

**Product:** No data available.

#### BOD/COD ratio

**Product:** No data available.

### Bioaccumulative potential

#### Bioconcentration factor (BCF)

**Product:** No data available.

#### Partition coefficient n-octanol / water (log Kow)

**Product:** No data available.

### Mobility in soil: No data available.

#### Known or predicted distribution to environmental compartments

Orthophosphoric acid No data available.

Water No data available.

#### Known or predicted distribution to environmental compartments

Water No data available.

## 13. Disposal considerations

**Disposal instructions:** No data available.



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**Contaminated packaging:** No data available.

#### 14. Transport information

##### DOT

UN number: UN 1805  
UN proper shipping name: Phosphoric acid solution  
Transport hazard class(es)  
Class: 8  
Label(s): 8  
Packing group: III  
Marine Pollutant: Not regulated.  
Special precautions for user: -

##### IATA

UN number: UN 1805  
Proper Shipping Name: Phosphoric acid, solution  
Transport hazard class(es):  
Class: 8  
Label(s): 8  
Packing group: III  
Environmental hazards: Not regulated.  
Special precautions for user: -  
Other information  
Passenger and cargo aircraft: Allowed.  
Cargo aircraft only: Allowed.

#### 15. Regulatory information

##### US federal regulations US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

##### CERCLA Hazardous Substance List (40 CFR 302.4):

Phosphoric Acid Reportable quantity: 5000 lbs.

##### Superfund amendments and reauthorization act of 1986 (SARA)

##### Hazard categories

Not listed.

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**SARA 302 Extremely hazardous substance**

None present or none present in regulated quantities.

**SARA 304 Emergency release notification**

<u>Chemical identity</u>	<u>RQ</u>
Phosphoric Acid	5000 lbs.

**SARA 311/312 Hazardous chemical**

<u>Chemical identity</u>	<u>Threshold Planning Quantity</u>
Phosphoric Acid	500 lbs

**SARA 313 (TRI reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

Phosphoric Acid Reportable quantity: 5000 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**

None present or none present in regulated quantities.

**US state regulations**

**US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

**US. New Jersey Worker and Community Right-to-Know Act**

Phosphoric Acid Listed

**US. Massachusetts RTK - Substance List**

Phosphoric Acid Listed

**US. Pennsylvania RTK - Hazardous Substances**

Phosphoric Acid Listed

**US. Rhode Island RTK**

Phosphoric Acid Listed

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<b>Inventory Status:</b> Australia AICS:	Not in compliance with the inventory.
Canada DSL Inventory List:	Not in compliance with the inventory.
EU EINECS List:	On or in compliance with the inventory
EU ELINCS List:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
EU No Longer Polymers List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	Not in compliance with the inventory.
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

**16. Other information, including date of preparation or last revision**

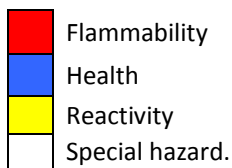
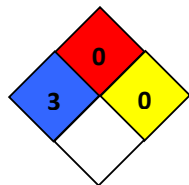
**HMIS Hazard ID**

<b>Health</b>	*	3
<b>Flammability</b>	0	
<b>Physical hazards</b>	0	
<b>PERSONAL PROTECTION</b>		B

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

**NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue date:** 05/01/2015  
**Revision date:** No data available.  
**Version #:** 1.0  
**Further information:** No data available.

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## Univar USA Inc Material Safety Data Sheet

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For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

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