



# Safety Data Sheet

Preparation Date 02-Apr-2015

Revision date 02-Apr-2015

Revision Number: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

**Product Description:** DECCO 312 Buffer Concentrate

### Other means of identification

**Item#:** 24-312  
**UN-No** 1805  
**Synonyms** Not Available

### Recommended use of the chemical and restrictions on use

**Recommended use** Food grade acidic buffer for hypochlorite.  
**Uses advised against** Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

**Emergency telephone number**  
**Company Phone Number** 626-358-1838  
8:00 am - 5:00 pm (PST)  
**Emergency telephone number** Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

### Label elements

### EMERGENCY OVERVIEW

**DANGER**

### hazard statements

Causes severe skin burns and eye damage



**appearance** clear Colorless To Light yellow

**Physical state** liquid

**Odor** No information available

### Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray  
Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see .? on this label)

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION****3. Composition/information on Ingredients**

Chemical name	CAS-No	Weight %	Trade secret
Phosphoric acid	7664-38-2	1-20	

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. First aid measures****FIRST AID MEASURES**

<b>Eye contact</b>	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	Take off contaminated clothing. Wash off immediately with soap and plenty of water. Call poison control center or doctor for treatment advice.
<b>Inhalation</b>	If breathing is irregular or stopped, administer artificial respiration. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. If swallowed, drink large quantities of milk or gelatin. If these are not available drink large quantities of water. Clean mouth with water. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician** No information available.

**5. Fire-fighting measures****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

No information available.

**Hazardous combustion products** Phosphoric pentoxide fumes. Flammable hydrogen gas can be liberated from contact with some metals.

**Explosion data****Protective equipment and precautions for firefighters**

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with the skin and the eyes. Use personal protective equipment.

**Environmental Precautions**

**Environmental precautions** Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

## 7. Handling and Storage

**Precautions for safe handling**

**Handling** Keep out of reach of children. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Provide adequate ventilation. Wash thoroughly after handling. Empty containers may contain hazardous residues.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep from freezing; material may precipitate.

**incompatible materials** Contact with water or alkalis may cause violent heat generation or splattering. Contact with metals can generate flammable and/or explosive hydrogen gas.

## 8. Exposure Controls/Personal Protection

**Exposure guidelines**

Chemical name	ACGIH TLV	OSHA PEL
Phosphoric acid	STEL: 3 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup> (vacated) STEL: 3 mg/m <sup>3</sup>

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

**Personal protective equipment****Eye/Face Protection**

Avoid contact with eyes. Use eye protection to avoid eye contact. Goggles. If splashes are likely to occur, wear: Face-shield.

**Skin protection**

Chemical resistant gloves. Wear protective gloves/clothing.

**Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment

appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

### General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Avoid contact with skin, eyes and clothing. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

### Information on basic physical and chemical properties

<b>Physical state</b>	liquid	<b>Odor</b>	No information available
<b>appearance</b>	clear Colorless To Light yellow		
<b>color</b>	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	1	>
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	>100 °C	
<b>Flash Point</b>		
<b>Evaporation Rate</b>	No information available	
<b>flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	
<b>Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.04	
<b>Water solubility</b>	No information available	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

### OTHER INFORMATION

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC Content</b>	No information available
<b>density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and Reactivity

### Reactivity

no data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

**Conditions to avoid**

Heating to decomposition yields toxic fumes of phosphorus pentoxide. Keep away from children.

**incompatible materials**

Contact with water or alkalies may cause violent heat generation or splattering. Contact with metals can generate flammable and/or explosive hydrogen gas.

**Hazardous decomposition products**

Phosphorus pentoxide.

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

<b>Inhalation</b>	There is no data available for this product.
<b>Eye contact</b>	There is no data available for this product.
<b>Skin contact</b>	There is no data available for this product.
<b>Ingestion</b>	There is no data available for this product.

**Component Information**

Phosphoric acid Workers exposed to fumes, considered to be primarily this material, showed slight irritation up to 5.4 mg/m<sup>3</sup>, moderate irritation and coughing up to 11.3 mg/m<sup>3</sup> and were unable to endure 100 mg/m<sup>3</sup>. Residents exposed to a mixture of chemicals including this material following a railroad spill experienced eye irritation, nausea, vomiting, shortness of breath and reduced pulmonary function which was not evident one month later. The corrosive effects of this material are dependent upon the concentration. Concentrations of 75% produce burns to the skin, 5% produce a stinging sensation and 1% or less are only slightly irritating. Accidental exposure to concentrated solutions have been reported to cause permanent eye injuries, but buffered solutions of 1.6% did not cause eye damage. In one study, chronic bronchitis and impaired respiratory performance was reported, but exposure to other agents were also present. In another study, workers in production showed no significant increases in bronchial effects versus non-exposed workers. Long-term inhalation exposure caused bronchitis and adverse effects on the liver, kidney and spleen in rats. Long-term oral administration in the diet of rats did not result in any adverse systemic effects. No adverse reproductive effects or effects on survival and growth of offspring were reported after repeated dietary administration to adults and pups. No genetic changes were observed in tests using bacterial or animal cells. Based on single exposure animal tests, it is considered to be no more than slightly toxic if swallowed (rat LD50 1,250-1,530 mg/kg) or absorbed through skin (rabbit LD50 2,031-2,740mg/kg), corrosive to the eyes and skin.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric acid 7664-38-2	= 1530 mg/kg ( Rat )	2730 mg/kg ( Rabbit )	850 mg/m <sup>3</sup> ( Rat ) 1 h

**Information on Toxicological Effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

<b>sensitization</b>	No information available.
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical Measures of Toxicity - No information available**

The following values are calculated based on chapter 3.1 of the GHS document .

## 12. Ecological Information

### ecotoxicity

None known

### Persistence/Degradability

No information available.

### Bioaccumulation/ Accumulation

No information available.

### Other Adverse Effects

No information available

## 13. Disposal Considerations

### Waste Treatment Methods

**Waste Disposal Method** Dispose of in accordance with all applicable federal, state, and local laws and regulations.

**Contaminated packaging** Refer to product label. Do not reuse empty containers.

Chemical name	Phosphoric acid
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## 14. Transport Information

### DOT

<b>UN-No</b>	1805
<b>Proper shipping name</b>	Phosphoric acid solution
<b>Hazard class</b>	8
<b>Packing group</b>	PG III
<b>Reportable Quantity (RQ):</b>	5,000 lbs

### ICAO

<b>UN-No</b>	1805
<b>Proper shipping name</b>	Phosphoric acid, liquid
<b>Hazard class</b>	8
<b>Packing group</b>	PG III

### IATA

<b>UN-No</b>	1805
<b>Proper shipping name</b>	Phosphoric acid, liquid
<b>Hazard class</b>	8
<b>Packing group</b>	PG III

### IMDG/IMO

<b>UN-No</b>	1805
<b>Proper shipping name</b>	Phosphoric acid solution
<b>Hazard class</b>	8
<b>Packing group</b>	PG III

## 15. Regulatory Information

### International Inventories

USINV	Not determined
DSL/NDSL	Not determined
EINECS/ ELINCS	Complies
ENCS	Does not comply
China	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
TSCA	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and and Title 40n of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazardous

##### Categorization

Acute health hazard	yes
Chronic health hazard	yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	yes

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid 7664-38-2	5000 lb			X

Chemical name	RQ	CERCLA EHS RQs	RQ
Phosphoric acid 7664-38-2	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

#### CERCLA

Component	RQ
Phosphoric acid 7664-38-2 ( 1-20 )	5000 lb

#### RCRA

#### Pesticide Information

#### State Regulations

#### State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	X	X	X		

#### International regulations

##### U.S. EPA Label information

EPA Pesticide registration number Not applied

<b>16. Other Information</b>
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<b>NFPA</b>	<b>HEALTH 3</b>	<b>flammability 0</b>	<b>Instability 0</b>	<b>Physical hazard -</b>
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**Preparation Date** 02-Apr-2015

**Revision date** 02-Apr-2015

**Revision Summary**  
Update to GHS format

**Disclaimer**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return product at once, unopened, and the purchase price will be refunded. It is impossible to eliminate all risks associated with the use of this product. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Decco US Post-Harvest, Inc. harmless from any claims relating to such factors.

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**End of MSDS**