



Material Safety Data Sheet

NFPA	PPE		

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24-312 - DECCO 312 Buffer Concentrate

1. PRODUCT AND COMPANY IDENTIFICATION

DECCO
 Cerexagri, Inc.
 1713 S. California Ave.
 Monrovia, CA 91016-0120

Emergency Telephone Number
 Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
 Medical: Rocky Mountain Poison Control Center
 (866) 673-6671 (24hrs)

Company Information
 Decco-Cerexagri

Contact Information
 Customer Service

Phone Number
 626-358-1838

Available Hrs
 8:00am - 5:00pm (PT)

Product Name DECCO 312 Buffer Concentrate
Recommended Use Food grade acidic buffer for hypochlorite
Product Code 24-312

2. HAZARDS IDENTIFICATION

Emergency Overview
 The product causes burns of eyes, skin and mucous membranes
 May cause blindness
 Causes digestive tract burns.
 May cause lung injury
 May be harmful if swallowed

DANGER!

Appearance Clear, Colorless, to, Light yellow.

Physical State Liquid.

Odor Not available

Potential Health Effects

- Inhalation
 - Skin contact
- Acute Effects**

Based on single exposure animal tests, it is considered to be slightly toxic if swallowed or absorbed through skin and corrosive to eyes and skin. Overexposure to vapor may be severely irritating to the eyes and respiratory tract including tearing, blurred vision, coughing, chest pains, shortness of breathe and, with severe or prolonged exposure, chronic bronchitis and delayed pulmonary edema. If swallowed, this material may cause mild to severe burns to the mouth, throat and digestive tract. Medical conditions which may be aggravated by overexposure to this material include lung disease or limited respiratory capacity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Phosphoric acid	7664-38-2	8	1 mg/m ³

4. FIRST AID MEASURES**Eye Contact**

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.

Skin Contact

Take off contaminated clothing.
Wash off immediately with soap and plenty of water
Call poison control center or doctor for treatment advice.

Inhalation

Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artificial respiration.
Call a poison control center or doctor for further treatment advice.

Ingestion

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.
Do not induce vomiting unless told to do so by a poison control center or doctor
Never give anything by mouth to an unconscious person

Notes to Physician

No information available

5. FIRE-FIGHTING MEASURES**Flammable Explosive Properties****Flash Point**

Not available

Autoignition Temperature

Not available

Flammability Limits in Air

Not available

Extinguishing Media

Use: Water spray, Carbon dioxide (CO₂), Foam, Dry chemical.

Fire/Explosion Hazard

Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.

Hazardous Combustion Products

Flammable hydrogen gas can be liberated from contact with some metals., Phosphoric pentoxide fumes.

NFPA

Health 3

Flammability 0

Instability 0

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions**

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

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 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

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. Ensure adequate ventilation. Wash thoroughly after handling. . Empty containers may contain hazardous residues.

Storage

Keep from freezing; material may precipitate..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Phosphoric acid	1 mg/m ³	1 mg/m ³

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

Appearance	Clear Colorless to Light yellow	Odor	Not available
Physical State	Liquid	pH	No data available
Boiling Point/Range	>100°C	Melting Point/Range	Not available
Specific Gravity	1.04 g/cc	Solubility	Completely soluble
Evaporation Rate	Not available	Vapor Pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	No data available	Percent Solids	Not available
Percent Volatiles	92%		

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions

Conditions to Avoid

Heating to decomposition yields toxic fumes of phosphorus

pentoxide.. Keep away from children.

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. .

Hazardous Decomposition Products

Phosphorus pentoxide.

Possibility of Hazardous Polymerization

Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION**Acute Toxicity****Component Information****Phosphoric acid**

Workers exposed to fumes, considered to be primarily this material, showed slight irritation up to 5.4 mg/m³, moderate irritation and coughing up to 11.3 mg/m³ and were unable to endure 100 mg/m³. 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.

Chronic Toxicity

There are no known carcinogenic chemicals in this product

Carcinogenicity**12. ECOLOGICAL INFORMATION****Ecotoxicity****Phosphoric acid**

Generally, dilute material is slightly toxic to practically non-toxic to aquatic organisms. If spilled in concentrated volumes, acidification may occur and data from studies with bluegill sunfish indicate that a pH of 3 causes lethality in approximately 50% of the adult organisms. This material is slightly toxic to Arabian freshwater fish, *Aphanius dispar* (LC50 3.71 mg/l).

13. DISPOSAL CONSIDERATIONS

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

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Phosphoric acid solution
Hazard Class 8
UN-No 1805
Packing Group PG III
Reportable Quantity (RQ): 5,000 lbs

ICAO

UN-No 1805
Proper Shipping Name Phosphoric acid, liquid
Hazard Class 8
Packing Group PG III

IATA

UN-No 1805
Proper Shipping Name Phosphoric acid, liquid
Hazard Class 8
Packing Group PG III
ERG Code 8 L

IMDG/IMO

Proper Shipping Name Phosphoric acid solution
Hazard Class 8
UN-No 1805
Packing Group PG III

15. REGULATORY INFORMATION

International Inventories

Phosphoric acid

DSL Listed
EINECS/ELINCS Listed
ENCS Listed
CHINA Listed
KECL Listed

USA

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

Chronic Health Hazard Yes
Acute Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Phosphoric acid	5000 lbs			Listed.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

Chemical Name	RQ
Phosphoric acid	Listed.

RCRA**Pesticide Information****State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Phosphoric acid	Listed.			Listed.	

International Regulations**Mexico - Grade**

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Phosphoric acid			1 mg/m ³

Canada

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

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Revision Date

14-Jan-2009

Revision Summary

Update section 15

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End of MSDS