



Material Safety Data Sheet

NFPA	PPE		

Issued Date 08-Feb-2007

Revision Date 14-Jan-2009

Revision Number: 4

24-313 - DECCO 313 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 313 Buffer Concentrate

Recommended Use

Food grade acidifier for adjusting pH for sanitations with sodium hypochlorite

Product Code

24-313

2. HAZARDS IDENTIFICATION

Emergency Overview

The product causes burns of eyes, skin and mucous membranes
May cause blindness
May cause lung injury
May be harmful if inhaled.

DANGER!

Appearance Colorless, Light yellow.

Physical State Liquid.

Odor Not available

Potential Health Effects

- Inhalation
- Skin contact

Acute Effects

- Eyes**
- Skin**
- Inhalation**

Ingestion

Medical conditions which may be aggravated by overexposure to this material include lung disease or limited respiratory capacity.
Corrosive to the eyes and may cause severe damage including blindness.
Causes burns.
Overexposure to vapors may be severely irritating to the respiratory tract and cause coughing, chest pains, shortness of breath, and with severe or prolonged exposure, chronic bronchitis and delayed pulmonary edema.
Ingestion causes burns of the upper digestive and respiratory tracts.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Phosphoric acid	7664-38-2	24	1 mg/m ³
Water	7732-18-5	68	N/A

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. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. Call a physician or Poison Control Centre immediately 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 Do not induce vomiting unless told to do so by a poison control center or doctor Call a physician or poison control center for treatment advice. Never give anything by mouth to an unconscious person
Notes to Physician	Treat symptomatically

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 (CO ₂), 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.
NEPA	Health 3
	Flammability 0
	Instability 0

6. ACCIDENTAL RELEASE MEASURES

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

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

Avoid contact with skin and eyes. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. . Keep out of reach of children. 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. Chemical resistant apron.

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	Colorless Light yellow	Odor	Not available
Physical State	Liquid	pH	< 1
Boiling Point/Range	Not available 232°F	Melting Point/Range	Not available
Specific Gravity	1.13 g/cc	Solubility	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	9.44 lb/gal	Percent Solids	Not available
Percent Volatiles	76%		

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions

Conditions to Avoid

Heating to decomposition yields toxic fumes of phosphorus pentoxide..

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 (Phosphoric acid)

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	8L

IMDG/IMO

Proper Shipping Name	Phosphoric acid solution
Hazard Class	8
UN-No	1805
Packing Group	PG III
EmS No.	F-A, S-B

15. REGULATORY INFORMATION**International Inventories**

Phosphoric acid

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

Water

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	No

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