



Material Safety Data Sheet

NFPA	PPE		

Issued Date 08-Feb-2007

Revision Date 08-Feb-2007

Revision Number: 2

24-314 - DECCOSOL 314 Buffer

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) 767-5089 (24hrs)

Company Information
 Decco-Cerexagri

Contact Information
 Customer Service

Phone Number
 626-358-1838

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

Product Name DECCOSOL 314 Buffer
Recommended Use Acid buffer for Agclor 310
Product Code 24-314

2. HAZARDS IDENTIFICATION

Emergency Overview
 Causes severe eye and skin irritation.

WARNING!

Appearance Yellow.

Physical State Liquid.

Odor Odorless.

Potential Health Effects

- Inhalation
- Skin contact

Eyes
Skin
Inhalation
Ingestion

Severely irritating to the eyes.
 Irritating to skin.
 May cause irritation of respiratory tract.
 Ingestion may cause irritation .

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Citric acid	77-92-9	1-80	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. If symptoms persist, call a physician
Skin Contact	Rinse skin immediately with plenty of water for 15-20 minutes. If skin irritation persists, call a physician
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	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 Have person sip a glass of water if able to swallow Call a physician or poison control center for treatment advice.
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 (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	No information available.		
NFPA	Health 1	Flammability 0	Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with skin, eyes and clothing. 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..
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

7. HANDLING AND STORAGE

Handling	Keep out of reach of children. Do not eat, drink or smoke when using this product. Avoid breathing vapors or mists. Remove and wash contaminated clothing before re-use. Wear personal protective equipment.
-----------------	---

Storage Keep in a dry, cool and well-ventilated place. Store at temperatures below 90 F..

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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

Skin Protection

Respiratory Protection

Avoid contact with eyes. Use eye protection to avoid eye contact. . Goggles. Protective gloves.

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. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow	Odor	Odorless
Physical State	Liquid	pH	No data available
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	1.240 @ 60 F	Solubility	Not available
Evaporation Rate	Not available	Vapor Pressure	21.90 mmHg @ 77 F
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	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	Extremes of temperature and direct sunlight.
Incompatible Materials	No materials to be especially mentioned
Hazardous Decomposition Products	None under normal use.
Possibility of Hazardous Polymerization	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Citric acid
Single exposure studies indicate that this material is practically non-toxic if swallowed (rat LD50 6,730-11,700 mg/kg) moderately irritating to rabbit skin and severely irritating to rabbit eyes.

This material has been widely used in foods, beverages and pharmaceutical preparations. Occupational exposure has been reported to cause erosion of tooth enamel. Repeated administration in the diet of rats caused reduced weight gain, reductions in red blood cell counts and decreased organ weight of several organs. Long term dietary administration to two generations of rats showed no adverse effects on growth, reproduction, the blood or any organ; however, some increase in dental erosion was noted. A long-term feeding study in rats produced an increase in weight gain, but no evidence of organ pathology was obtained. No genetic changes were observed in tests using bacteria.

Chronic Toxicity

There are no known carcinogenic chemicals in this product

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

Citric acid

This material is practically non-toxic to fathead minnow (LC50 600 mg/l) and Daphnia magna (LC50 1,535 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

Not regulated

ICAO

Not regulated

IATA

Not regulated

IMDG/IMO

Not regulated

15. REGULATORY INFORMATION

International Inventories

Citric 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 Title 40n of the Code of Federal Regulations, Part 372.

**SARA 311/312 Hazardous Categorization
Chronic Health Hazard**

No

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

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

This product does not contain any HAPs.

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

This product does not contain any Proposition 65 chemicals.

State Right-to-Know**International Regulations**

Mexico - Grade Not available

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 08-Feb-2007

Revision Summary

Update to add NFPA and PPE graphics

UPI, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of UPI, Inc. UPI, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

End of MSDS