



# Material Safety Data Sheet

<b>NFPA</b>	<b>PPE</b>		

Issued Date 08-Feb-2007

Revision Date 08-Feb-2007

Revision Number: 1

24-615 - Deccosan 321

## 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** Deccosan 321  
**EPA Reg #** 10324-72-2792  
**Recommended Use** Disinfectant, deodorizer, and sanitizer  
**Product Code** 24-615

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**  
 May be fatal if swallowed.  
 Causes eye burns  
 Causes skin burns  
 Harmful if inhaled

**DANGER!**

**Appearance** Colorless, to, Light yellow, to, Greenish.

**Physical State** Liquid.

**Odor** Benzaldehyde odor.

**Potential Health Effects**

- Inhalation
- Skin contact

**Eyes**  
**Skin**

Causes burns.  
 Causes burns. Prolonged or repeated skin contact with dilute solutions may result in dermatitis..

**Inhalation**

Harmful by inhalation. Irritating to mucous membranes. Medical conditions which may be aggravated by exposure to this material include lung disease or limited respiratory capacity..

**Ingestion**

Ingestion causes burns of the upper digestive and respiratory tracts. Mild to severe lung injury may occur if material is drawn into the lungs during swallowing, or during vomiting after swallowing. . Toxic if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Ingredients Name**

Chemical Name	CAS-No	Weight %	OSHA PEL
Ethoxylated secondary alcohols (C11-15)	68131-40-8	<20	N/A
Sodium metasilicate	6834-92-0	<10	N/A
Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl chloride	68424-85-1	5-40	N/A
Tetrasodium ethylenediaminetetraacetate	64-02-8	<15	N/A
N-decyl-N,N-dimethyl-chloride-1-decaminium	7173-51-5	<10	N/A

### 4. FIRST AID MEASURES

**Eye Contact**

Hold eye open and rinse slowly and gently with water for 30 minutes. Remove contact lenses, if present, after the first 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.  
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 Centre immediately  
Have person sip a glass of water if able to swallow  
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**

> 220°F

**Autoignition Temperature**

Not available

**Flammability Limits in Air**

Not available

**Extnguishing Media**

Use: Dry chemical. Water spray, Carbon dioxide (CO<sub>2</sub>), Foam.

**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**

Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by heat, pilot lights, and

other flames and ignition sources at locations distant from material handling point. .

NFPA

Health 3

Flammability 1

Instability 0

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Remove all sources of ignition. Use personal protective equipment. Avoid contact with the skin and the eyes. Take precautionary measures against static discharges. Pay attention to flashback.
<b>Environmental Precautions</b>	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..
<b>Methods for Clean-up</b>	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

<b>Handling</b>	Keep out of reach of children. Avoid contact with skin and eyes. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Check that all equipment is properly bonded and grounded.. Ensure adequate ventilation. Empty containers may contain hazardous residues.
<b>Storage</b>	Store in well ventilated area away from heat and sources of ignition such as flame, sparks and static electricity. Ensure that all storage and handling equipment is properly rated, grounded and installed to satisfy electrical classification requirements. . Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Guidelines</b>	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
<b>Engineering Controls</b>	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. .
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Avoid contact with eyes. Use eye protection to avoid eye contact. . Goggles. If splashes are likely to occur, wear.. Face-shield.
<b>Skin Protection</b>	Chemical resistant gloves. Chemical resistant protective clothing.
<b>Respiratory Protection</b>	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

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Colorless to Light yellow to Greenish	<b>Odor</b>	Benzaldehyde odor
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<b>Physical State</b>	Liquid	<b>pH</b>	approx. 13
<b>Boiling Point/Range</b>	Not available	<b>Melting Point/Range</b>	Not available
<b>Specific Gravity</b>	1.0 g/ml	<b>Solubility</b>	Soluble
<b>Evaporation Rate</b>	Not available	<b>Vapor Pressure</b>	Not available
<b>Vapor Density</b>	Not available	<b>VOC Content</b>	Not available
<b>Viscosity</b>	Not available	<b>Molecular Weight</b>	No data available
<b>Bulk Density</b>	8.33 lb/gal	<b>Percent Solids</b>	Not available
<b>Percent Volatiles</b>	Not available		

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition. Keep away from children.
<b>Incompatible Materials</b>	Strong oxidizing agents. reducing agents.
<b>Hazardous Decomposition Products</b>	Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.
<b>Possibility of Hazardous Polymerization</b>	Hazardous polymerisation does not occur

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Component Information

##### Tetrasodium EDTA

No skin allergy was reported in guinea pigs following repeated exposure. The biological effects of this material are associated with its chelating properties that allow it to bind with metal ions and it is used in medical therapy as anticoagulants and detoxicants for heavy metal poisoning. This binding property may cause essential element deficiencies, which can interfere with normal enzymatic processes, in exposed individuals not being treated for heavy metal poisoning. Animal studies indicate that repeated oral exposure may result in alterations in tissue metal distributions with secondary changes to the kidney, intestinal tract, and enzyme system function. At levels that were maternally toxic, this material has shown the ability to produce birth defects in offspring. In studies where zinc was supplemented, the offspring of rats showed no increase in birth defects. Long-term administration showed no evidence for carcinogenicity. No genetic changes were observed in tests using bacteria, animal cells or human cells.

##### Sodium metasilicate

Single exposure studies indicate that this material is slightly toxic to rats if swallowed (rats LD50 800-1,349 mg/kg) corrosive to mucous membranes of the gastrointestinal tract causing vomiting and bleeding) and corrosive to rabbit eyes and skin (4 hr and 24 hr exposures).

No immunologic sensitization was produced in rabbits with sodium silicate bound to protein. Studies of continuous dietary administration (2400 mg/kg/day) to rats and dogs for 4 weeks resulted in excessive thirst and urination and, in dogs only, degeneration of kidney tubules. This material produced no genetic changes in standard tests using bacterial cells. It is rapidly absorbed after oral administration and excreted in the urine.

##### Ethoxylated secondary alcohols (C11-15)

Single exposure studies indicate that this material is slightly to practically non-toxic if swallowed (rat LD50 2,830-8,270 mg/kg) or absorbed through skin (rabbit LD50 2,012-11,300 mg/kg), moderately to severely irritating to rabbit eyes, and slightly to moderately irritating to rabbit skin. All rats survived an 8 hr exposure to concentrated vapor.

Following repeated skin contact, inflammatory effects on the lungs were observed in rabbits.

**Chronic Toxicity**

There are no known carcinogenic chemicals in this product

**Carcinogenicity**

<b>12. ECOLOGICAL INFORMATION</b>
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**Ecotoxicity****Tetrasodium EDTA**

This material is slightly to practically non-toxic to bluegill sunfish (96 hr LC50 41-2,170 mg/kg) golden orfe ( 48 hr LC50 2,830-8,270 mg/kg) fathead minnow (96 hr LC50 2,012-11,300 mg/kg) and Daphnia magna (24 hr EC50 610-1,033 mg/l) It is moderately toxic to algae (72 hr EC50 1.01 mg/l) .

**Quaternary ammonium compounds**

This material is moderately toxic to striped bass ((96 hr LC50 1.41 mg/l).

The observed bioconcentration factor was 33.3.

<b>13. DISPOSAL CONSIDERATIONS</b>
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<b>Waste Disposal Method</b>	Dispose of in accordance with all applicable federal, state, and local laws and regulations. .
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal

<b>14. TRANSPORT INFORMATION</b>
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**DOT**

<b>Proper Shipping Name</b>	Disinfectants, liquids, corrosive, n.o.s. (quaternary ammonium compounds)
<b>Hazard Class</b>	8
<b>UN-No</b>	1903
<b>Packing Group</b>	PG II

**ICAO**

<b>UN-No</b>	1903
<b>Proper Shipping Name</b>	Disinfectants, liquids, corrosive, n.o.s. (quaternary ammonium compounds)
<b>Hazard Class</b>	8
<b>Packing Group</b>	PG II

**IATA**

<b>UN-No</b>	1903
<b>Proper Shipping Name</b>	Disinfectants, liquids, corrosive, n.o.s. (quaternary ammonium compounds)
<b>Hazard Class</b>	8
<b>Packing Group</b>	PG II
<b>ERG Code</b>	8 L

**IMDG/IMO**

<b>Proper Shipping Name</b>	Disinfectants, liquids, corrosive, n.o.s. (quaternary ammonium compounds)
<b>Hazard Class</b>	8
<b>UN-No</b>	1903
<b>Packing Group</b>	PG II

<b>15. REGULATORY INFORMATION</b>
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**International Inventories**

Ethoxylated secondary alcohols (C11-15)

<b>DSL</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

## Sodium metasilicate

<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

## Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl chloride

<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

## Tetrasodium ethylenediaminetetraacetate

<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	Listed

## N-decyl-N,N-dimethyl-,chloride-1-decaminium

<b>DSL</b>	Listed
<b>EINECS/ELINCS</b>	Listed
<b>ENCS</b>	Listed
<b>CHINA</b>	Listed
<b>KECL</b>	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**

<b>Chronic Health Hazard</b>	No
<b>Acute Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	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**  
Add to new MSDS system

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**End of MSDS**