



Material Safety Data Sheet

NFPA	PPE		
			

Issued Date 08-Feb-2007

Revision Date 16-Jun-2010

Revision Number: 4

1. PRODUCT AND COMPANY IDENTIFICATION

DECCO

Decco U.S. Post Harvest, 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 U.S. Post Harvest, Inc.

Contact Information

Customer Service

Phone Number

626-358-1838

Available Hrs

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

Product Name

EPA Reg #

Recommended Use

Product Code

DECCOSAN® 321

10324-72-2792

Disinfectant, deodorizer, and sanitizer

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 Center 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
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Extnguishing Media	Use: Dry chemical. Water spray, Carbon dioxide (CO2), Foam.
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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.
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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. .
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NFPA	Health 3	Flammability 1	Instability 0
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6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	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.
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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..
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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.
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7. HANDLING AND STORAGE

7. HANDLING AND STORAGE

Handling	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.
Storage	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

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	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 protective 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

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

Appearance	Colorless to Light yellow to Greenish	Odor	Benzaldehyde odor
Physical State	Liquid	pH	approx.13
Boiling Point/Range	Not available	Melting Point/Range	Not available
Specific Gravity	1.0 g/ml	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	8.33 lb/gal	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Keep away from children.
Incompatible Materials	Strong oxidizing agents. reducing agents.
Hazardous Decomposition Products	Carbon oxides. Nitrogen oxides (NOx). Hydrogen chloride.
Possibility of Hazardous Polymerization	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

12. ECOLOGICAL INFORMATION

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.

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	Disinfectants, liquids, corrosive, n.o.s. (quaternary ammonium compounds)
Hazard Class	8
UN-No	1903
Packing Group	PG II

ICAO

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

IATA

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

IMDG/IMO

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

15. REGULATORY INFORMATION

International Inventories

Ethoxylated secondary alcohols (C11-15)

DSL	Listed
ENCS	Listed
CHINA	Listed
KECL	Listed

Sodium metasilicate

DSL	Listed
EINECS/ELINCS	Listed
ENCS	Listed
CHINA	Listed

Ethoxylated secondary alcohols (C11-15)

KECL Listed

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

DSL Listed

EINECS/ELINCS Listed

ENCS Listed

CHINA Listed

KECL Listed

Tetrasodium ethylenediaminetetraacetate

DSL Listed

EINECS/ELINCS Listed

ENCS Listed

CHINA Listed

KECL Listed

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

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	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 16-Jun-2010

Revision Summary
Update warranty statement

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.

To the extent consistent with applicable law, Decco US Post-Harvest Inc. makes no warranties or merchantability or of fitness for a particular purpose nor any other express or implied warranty except as stated on this MSDS.

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End of MSDS