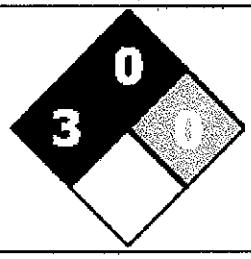
DECCO
WE CREATE SMART PROTECTION

Material Safety Data Sheet

NFPA	PPE
	

Issued Date 08-Feb-2007 **Revision Date** 14-Jan-2009 **Revision Number:** 4

24-440 - DECCO Fruit & Vegetable Kleen 440

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	Contact Information	Phone Number	Available Hrs
Decco-Cerexagri	Customer Service	626-358-1838	8:00am - 5:00pm (PT)

Product Name DECCO Fruit & Vegetable Kleen 440
Recommended Use Alkaline cleaner
Product Code 24-440

2. HAZARDS IDENTIFICATION

Emergency Overview

The product causes burns of eyes, skin and mucous membranes
Harmful by inhalation, in contact with skin and if swallowed

DANGER!

Appearance Clear, Light brown. **Physical State** Liquid. **Odor** Not available

Potential Health Effects

- Inhalation
- Skin contact

Acute Effects

Sodium hydroxide
This material is a strong alkali that can be desctructive to tissue producing severe burns which are not immediately painful or visible. Contact with body tissues may produce deep ulceration, scarring or loss of sight. Concentrations as low as 2-3% can cause injury. Dermatitis and superficial skin damamge can result from repeated or prolonged contact with very dilute solutions. High levels of dust or mist may be corrosive to mucous membranes producing eye or lung injury and chemical pneumonia. Lower concentrations may produce irritation of eyes, nose or upper respiratory tract with coughing, sore throat and shortness of breathe. Prolonged exposure may result in ulceration of the nasal passages. If swallowed, this material may cause severe internal injury, characterized by pain in the mouth and stomach, vomiting and breathing difficulties. Medical conditions which may be aggravated by exposure to this material inlcude lung disease or limited respiratory capacity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Sodium hydroxide	1310-73-2	1-20	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.
Remove and wash contaminated clothing before re-use

Inhalation

Move person to fresh air.
If person is not breathing, call 911 or an ambulance, then give artifical 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
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

Extnguishing Media Use: Water spray, 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

Avoid breathing fumes from fire exposed material. , Nitrous oxides, ammonia vapors.

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 pertinenet 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 Keep out of reach of children. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Storage Store in cool/well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear Light brown	**Odor**	Not available
Physical State	Liquid	**pH**	> 12
Boiling Point/Range	Not available	**Melting Point/Range**	Not available
Specific Gravity	1.1 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	9.18 lbs/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 children.

Incompatible Materials Strong acids. Incompatible with oxidizing agents. Avoid contact with zinc, aluminum, tin, bronze, lead, wool and leather. Avoid combustible materials, halogen compounds, anhydrides..

Hazardous Decomposition Products Nitrogen oxides (NOx). Ammonical vapors.

Possibility of Hazardous Polymerization Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Sodium hydroxide
Single exposure studies indicate that this material is slightly toxic if absorbed through the skin (rat LD50 1,350 mg/kg, dry NaOH) and corrosive to rabbit eyes and skin.

Many publications in the scientific literature confirm that this material is corrosive to all tissues. Repeated inhalation resulted in lung damamge in rats. No tumors were seen in long-term animal studies. No genetic changes were observed in tests using bacteria.

No significant increases in mortality in relation to duration of exposures were reported in an epidemiologic study of a small group of workers exposed to caustic dust for 30 years or more. Massive ingestion of this material has been implicated as causing esophageal cancer. Squamous cell carcinomas of the esophagus occurred approximately 12-24 years later in individuals who survived accidental childhood ingestion and are likely due to the tissue destruction and possible scarring of the esophagus rather than a direct effect of this material.

Chronic Toxicity

There are no known carcinogenic chemicals in this product

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

Sodium hydroxide
Data from several species of fish showed a range of tolerance (brook trout>spotfin and Lake Emerald shiners>minnows>mosquitofish>goldfish) that was most likely related to changes in the pH produced by additoin of sodium hydroxide to the water. The minimum lethal concentration for minnows, Mayfly larvae and Daphnia was 100 ppm and for Chinonomus larvae, 700 ppm..

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	Sodium hydroxide solution
Hazard Class	8
UN-No	1824
Packing Group	PG III
Reportable Quantity (RQ):	1,000 lbs (NaOH)

ICAO

UN-No	1824
Proper Shipping Name	Sodium hydroxide solution
Hazard Class	8
Packing Group	PG III

IATA

UN-No	1824
Proper Shipping Name	Sodium hydroxide solution
Hazard Class	8
Packing Group	PG III
ERG Code	8L

IMDG/IMO

Proper Shipping Name	Sodium hydroxide solution
Hazard Class	8
UN-No	1824
Packing Group	PG III
EmS No.	F-A,S-B

15. REGULATORY INFORMATION

International Inventories

Sodium hydroxide

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

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide	1000 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
Sodium hydroxide	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
Sodium hydroxide	Listed.			Listed.	

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 14-Jan-2009

Revision Summary
Update section 15

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End of MSDS