



Material Safety Data Sheet

1. Chemical Product & Company Data

Product Name: Zimek QD	
Manufacturer: Il Rep-Z, Inc. 4660 Elizabeth Street Coraopolis, PA 15108 Telephone: 1-412-264-8340	Supplier: Zimek Technologies 13537 Granville Avenue Clermont, FL 34711 1-800-71-ZIMEK

2. Ingredients

Name	CAS #	UN #	% by volume
Di-N-alkyl (C ₈₋₁₀) -N,N-dimethylammonium chloride	68424-95-3		3.3
N-Alkyl (C ₁₂₋₁₆) dimethylbenzylammonium chloride	68424-85-1		2.2
Tetrasodium ethylenediamine tetraacetate	64-02-8		1.9
Sodium metasilicate	6834-92-0		0.3
Ethanol	64-17-5		1.0
Water	7732-18-5		

3. Hazards Identification

Emergency Overview

Alkaline Liquid Mixture.

NOTE: Hazard information is based on the characteristics of the components of this mixture.

Ingestion - May cause abdominal discomfort, nausea, vomiting and diarrhea. Drowsiness or unconsciousness may occur.

Inhalation - Low concentration of the vapor may cause irritation of the respiratory tract with possible chest pain and coughing. High concentrations may cause headache and drowsiness.

Eye Contact - Causes eye irritation and possible permanent eye injury.

Skin Contact - Prolonged contact may cause discomfort, redness, drying and defatting of the skin.

4. First Aid

Ingestion - If swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). **Do not** induce vomiting.

Inhalation - Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen.

Eye Contact - Flush eyes with water for 15 minutes. Seek immediate medical attention.

Skin Contact - Wash with large amounts of running water, and soap if available, for 15 minutes. Remove contaminated clothing and shoes.

Note to physician - Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

Zimek QD

5. Fire Fighting Measures

Flammability Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, under which conditions?	
Flashpoint: >200 °F (93.3 °C)	Upper flammable limit % by volume n. av.	Lower flammable limit % by volume n. av.
Autoignition temperature n. av.	Hazardous combustion products Products of combustion are toxic	Explosion data n. ap.
Means of extinction: Apply alcohol type or all purpose foam for large fires. Use dry chemical media or carbon dioxide extinguishers for small fires. SCBA and bunker gear for fire department personnel.		

6. Accidental Release Measures

<p>Warning: May be corrosive. Wear personal protective equipment. Do not allow spill to reach watercourse or sewers. Contain spill with absorbent mats or booms or inert materials such as sand. Material should be readily available in the workplace. Collect and store waste materials in suitable containers for disposal i.e. metal drums. Floors may become slippery.</p>

7. Handling & Storage

<p>Eyewash stations are required in the workplace. If eye irritation is encountered the use of a full facepiece respirator is recommended. Mechanical ventilation is recommended in enclosed workspaces. Area should be evacuated of all non-essential personnel prior to application of product. In processes where mists or vapors are generated, respiratory protection is advised.</p>
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8. Exposure Controls & Personal Protection

Personal Protective Equipment		
Gloves Rubber or neoprene	Respirator Proper ventilation and/or NIOSH TC-23C organic vapor respirator where mists or vapors are generated.	Eye Goggles or full face respirator
Footwear n. ap.	Clothing Coveralls or equivalent	Other Eye wash; safety shower.
Exposure Guidelines		
<p>EFFECTS OF OVEREXPOSURE No information found for human exposure. Based on the available animal toxicity information for this and similar products, it is anticipated that direct contact with this material will produce severe skin or eye irritation. Upon prolonged contact, burns and possible irreversible damage may occur. Solvent vapors or mists of products can cause irritation of mucous membranes. Exposure to Ethanol concentrations of over 1,000 ppm may cause headache, irritation of the eyes, nose and throat, and, if long continued, drowsiness and loss of appetite and inability to concentrate.</p>		

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9. Physical and Chemical Properties

Physical state Liquid	Odor and appearance Clear liquid, odor varies with fragrance	
Odor threshold (ppm) n. av.	Vapor pressure (mm Hg) n. av.	Vapor density (Air=1) n. av.
Evaporation (butyl acetate = 1) n.av.	Boiling point 215.6 °F (102 °C)	Freezing point n. av.
pH 12.4	Specific gravity 1.01 @ 77 °F (25 °C)	Coefficient water/oil distribution n. av.
Solubility in water 100%	Viscosity <100 cps @ 77 °F (25 °C)	% Volatiles (by weight) 90%

10. Stability and Reactivity

Chemical Stability Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If no, under which conditions?
Incompatibility with other substances Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	If yes, under which conditions? Avoid strong oxidizing agents.
Reactivity, and under what conditions?	Stable under normal conditions.
Hazardous decomposition products?	Thermal decomposition may produce toxic vapors/fumes of hydrogen chloride, amines, and other organic materials and oxides of carbon and nitrogen.

11. Toxicological Information

Route of Entry Skin Contact <input checked="" type="checkbox"/> Skin Absorption <input checked="" type="checkbox"/> Eye Contact <input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Ingestion <input type="checkbox"/>			
No toxicity studies have been conducted for the product. oral LD50 (rat): 2800 mg/kg dermal LD50 (rabbit): 2850 mg/kg eye irritation (rabbit): extreme irritant (primary irritation = 97.5 without washing, and 93.3 with washing) skin irritation (rabbit): severe irritant (primary irritation index 8.0) DOT skin corrosivity (rabbit): non-corrosive skin irritation at 1:64 use dilution: non-irritant (primary irritation index = 0.0)			
Carcinogenicity No	Mutagenicity No	Teratogenicity No	Reproductive toxicity No
Synergistic products No	Sensitization No	Neurotoxicity No	Target organs Eyes and Skin

12. Ecological Information

Product is hazardous to aquatic life.

Zimek QD

13. Disposal Considerations

Do not dispose of product in storm or sanitary sewer systems.
Do not allow discharge into groundwater or a watercourse.
If product is to be disposed of, contact a licensed or registered waste disposal firm to incinerate the product.

14. Transport Information

Shipping Name: NOT REGULATED
Hazard Class:
UN Identification #:

15. Regulatory Information

This material safety data sheet has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the Hazardous Products Act (Can.) and the Controlled Products Regulations (Can.) This product has been classified in accordance with the hazard criteria of the CPR (Can.) and the MSDS contains all the information required by the CPR (Can.).

SARA Title III Sections 311/312 - This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in 40 CFR 370:

Chemical Name	CAS Number	Hazard *) Categories
Di-N-alkyl (C ₈₋₁₀)-N,N-dimethylammonium chloride	68424-95-3	A
N-Alkyl (C ₁₂₋₁₆)dimethylbenzylammonium chloride	68424-85-1	A
Ethanol	64-17-5	F
Linear primary and/or secondary alcohol ethoxylates and/or nonylphenol (branched) ethoxylate	Depends on ethoxylate type	A

*) The five hazard categories are as follows: F=FIRE HAZARD; S=SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD.

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS: Found on U.S. EPA TSCA inventory.

16. Other Information

This product is a disinfectant and cleaner.

For chemical emergency during transportation call INFOTRAC (US) **1-800-535-5053** (INT'L) **1-352-323-3500**

Prepared by: II Rep-Z, Inc., Coraopolis, PA / Cliff Zlotnik

Phone No: 1-412-264-8340

Date: June 19, 2006

Abbreviations:

n. av. = not available

mm Hg = millimeters of Mercury

COC = Cleveland Open Cup

LD = Lethal Dose

n. ap. = not applicable

PMCC = Pensky Martens Closed Cup

TWA = Time Weighted Average

LC = Lethal Concentration

ppm = parts per million

TCC = Tagliabue Closed Cup

STEL = Short Term Exposure Limit

CS = centistokes

Zimek QD is for use on the following hard non-porous surfaces: countertops, stovetops, sinks, appliances, refrigerators, tables, picnic tables, outdoor furniture, chairs, desks, telephones, highchairs, bed frames, washable walls, cabinets, doorknobs, telephones, shower stalls, tubs and glazed ceramic tiles, whirlpool bath tubs, glazed porcelain tiling, garbage cans, exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps, stainless steel, enameled surfaces, finished woodwork, Formica, vinyl, leather and plastic upholstery, bathtubs, shower stalls, sinks and bathroom fixtures, walls, kennel runs, cages, floors, conductive flooring and other hard non-porous surfaces (such as metal, stainless steel, glazed porcelain, glazed ceramic, fiberglass and plastic). **Zimek QD** is a one-step disinfectant cleaner that is effective against a broad spectrum of bacteria, a virucidal* (including HIV-1, the AIDS virus), fungicidal, and inhibits the growth of mold and mildew and their odors when used as directed. **Zimek QD** is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) when used on surfaces in areas such as locker rooms, dressing rooms, shower and bath areas, exercise facilities. **Zimek QD** kills Pseudomonas aeruginosa (Pseudomonas), Staphylococcus aureus (Staph), Salmonella choleraesuis (Salmonella), Acinetobacter baumannii (Acinetobacter), Brevibacterium ammoniumgenes (Brevibacterium), Campylobacter jejuni (Campylobacter), Enterobacter aerogenes, Enterococcus faecalis (Enterococcus), Enterococcus faecalis - Vancomycin resistant (VRE), Escherichia coli (E. coli), ESSL Escherichia coli - (Extended spectrum beta-lactamase producing E. coli), Klebsiella pneumoniae (Klebsiella), Legionella pneumophila, Pseudomonas cepacia (Pseudomonas), Salmonella schottmuelleri (Salmonella), Salmonella typhi (Salmonella), Serratia marcescens, Shigella dysenteriae (Shigella), Staphylococcus aureus Methicillin-Resistant (MRSA), Staphylococcus aureus Multi-Drug Resistant, Staphylococcus aureus - Vancomycin Intermediate Resistant - (VISA), Streptococcus faecalis, Streptococcus pyogenes (Strep), Vibrio cholerae, *Adenovirus Type 5 (Adenovirus) at 1:16 dilution (8 ounces per gallon), *Hepatitis B Virus (HBV), *Hepatitis C Virus (HCV), *Herpes Simplex Virus Types 1 & 2 (Herpes), *HIV-1 (the AIDS virus), *Human Coronavirus, *Influenza Type A/Brazil (Influenza), *Respiratory Syncytial Virus (RSV), *Vaccinia (Pox virus), Canine Distemper Virus, Newcastle's Disease Virus, Pseudorabies Virus, Trichophyton mentagrophytes (the Athlete's Foot Fungus), and Aspergillus niger. **Zimek QD** reduces 99.99% of Staphylococcus aureus, and Klebsiella pneumoniae in 60 seconds. **Zimek QD** meets EPA efficacy standards for hospital disinfectants. **Zimek QD** meets AODAC efficacy standards for hard surface sanitizers. **Zimek QD** is a Sanitizer for porous and non-porous Non-Food Contact Surfaces at 1:256 dilution (200 ppm active) (0.5 ounce per gallon) according to the method for Sanitizers-Non Food Contact Surfaces, modified in the presence of 500 ppm hard water plus 5% organic serum, in 60 seconds against Staphylococcus aureus and Klebsiella pneumoniae. **Zimek QD** is a Hospital Disinfectant at 1:64 dilution (2 ounces per gallon). Bactericidal according to the AODAC Use-Dilution Test method. Fungicidal according to the AODAC fungicidal test. Virucidal* according to the qualification, modified in the presence of 400 ppm hard water plus 5% organic serum against Pseudomonas aeruginosa, Staphylococcus aureus, Salmonella choleraesuis, Acinetobacter baumannii, Brevibacterium ammoniumgenes, Campylobacter jejuni, Enterobacter aerogenes, Enterococcus faecalis, Enterococcus faecalis - Vancomycin resistant, Escherichia coli, ESSL, Escherichia coli, Klebsiella pneumoniae, Legionella pneumophila, Pseudomonas cepacia, Salmonella schottmuelleri, Salmonella typhi, Serratia marcescens, Shigella dysenteriae, Staphylococcus aureus Methicillin-Resistant (MRSA), Staphylococcus aureus Multi-Drug Resistant, Staphylococcus aureus-Vancomycin Intermediate Resistant (VISA), Streptococcus faecalis, Streptococcus pyogenes (Strep), Vibrio cholerae, *Adenovirus Type 5 (Adenovirus) at 1:16 dilution (8 oz. per gallon of water). **Zimek QD** is a mildewstat at 1:64 dilution (2 ounces per gallon) and will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, non-porous surfaces (as indicated in the "Directions for Use" section of this label).

PELIGRO: Si no sabe inglés, solicite instrucciones a su supervisor antes de usar este producto.

DIRECCIONES FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Instrucciones de uso: El empleo de este producto de manera contraria a lo indicado en su etiqueta constituye una violación de la Ley Federal.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

PREPARATION OF USE-SOLUTION: Add (mix) 2 oz. per gallon of water, to disinfect hard, non-porous surfaces. For heavy-duty cleaning use, add (mix) 8 oz. per gallon of water (1:16).

DISINFECTANT/VIRUCIDAL*/FUNGICIDAL/MOLD AND MILDEW CONTROL DIRECTIONS: Apply use-solution to hard (inanimate) non-porous surfaces thoroughly wetting surfaces as recommended and required, with a cloth, mop, sponge, or sprayer. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse mist pump or trigger sprayer. Spray 6-8 inches from surface, rub with brush, sponge, or cloth. Do not breathe spray mist. Treated surfaces must remain wet for 10 minutes. Prepare a fresh solution daily or more frequently if use solution becomes visibly diluted or soiled. Thoroughly rinse all surfaces which come into contact with food such as countertops, appliances, tables and stovetops with potable water before reuse. This product is not to be used on glassware, dishware, cookware and utensils.

KILLS HIV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS In health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of human immunodeficiency virus Type 1 (HIV-1) (associated with AIDS).

"SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS." PERSONAL PROTECTION: Clean-up should always be done wearing protective latex gloves, gowns, masks and eye protection. **CLEANING PROCEDURE:** Blood and other body fluids containing HIV must be thoroughly cleaned from surfaces and objects before application of **Zimek QD CONTACT TIME:** Leave surface wet for 2 minutes with (2 ounces per gallon) use-solution. Use a 10 minute contact time for disinfection against all other virus, bacteria, and fungi claimed. **DISPOSAL OF INFECTIOUS MATERIALS:** Blood, body fluids, cleaning materials and clothing should be autoclaved and disposed of according to local regulations for infectious waste disposal.

FUNGICIDAL DIRECTIONS: For use in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities follow disinfection directions. At 2 ounces per gallon (1:64) in 250 ppm hard water and 5% serum, **Zimek QD** is an effective one-step fungicide against Trichophyton mentagrophytes (the athlete's foot fungus). At 2 ounces per gallon (1:64) in 400 ppm hard water, **Zimek QD** is an effective one-step fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) on precleaned surfaces.

MOLD AND MILDEW CONTROL: At 2 ounces per gallon **Zimek QD** will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard nonporous surfaces. Follow disinfection directions. Allow to dry on surface. Repeat when mildew growth returns.



Disinfectant - Cleaner - Sanitizer - Fungicide Mildewstat - Virucide* - Deodorizer - Bactericide For Household, Hospitals, Institutional and Industrial Use

Effective in hard water up to 400 ppm hardness
(Calculated as CaCO₃) in the presence of 5% serum contamination

Inhibits the Growth of Mold & Mildew
Effective Against a Broad Spectrum of Bacteria Listed on the Label

ACTIVE INGREDIENTS:	
Octyl decyl dimethyl ammonium chloride	1.65%
Dioctyl dimethyl ammonium chloride	0.66%
Didecyl dimethyl ammonium chloride	0.99%
Alkyl (C ₁₄ , 50%, C ₁₂ , 40%, C ₁₆ , 10%) dimethyl benzyl ammonium chloride	2.20%
Inert ingredients	94.50%

TOTAL 100.00%

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

E.P.A. Registration No. 70263-6-81632
E.P.A. Establishment No. 70263-PA-001

Net Contents: 1 PT. (0.473 Litres) 1 QT. (0.946 Litres) 1 GAL. (3.785 Litres)
 5 GAL. (18.925 Litres) 55 GAL. (208.175 Litres)

Distributed by: Zimek Technologies
13537 Granville Avenue, Clermont, FL 34711
1-800-71-ZIMEK

ULTRASONIC BATH DISINFECTANT DIRECTIONS: Use **Zimek QD** to disinfect hard (inanimate) non-porous non-critical instruments compatible with Ultrasonic cleaning units: Pour fresh solution of 2 oz. per gallon of water (1:64) directly into bath chamber. Preclean soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to manufacturers directions. Remove objects and rinse with sterile water (sterile water for injection), or allow to air dry. Replace solution daily or more often if solution becomes visibly dirty or discolored.

DISINFECTION OF ANIMAL CARE AND VETERINARY CLINICS: **Zimek QD** is effective against Avian Influenza virus, Avian Infectious Bronchitis virus, Pseudorabies virus, Canine Distemper virus, Newcastle's Disease virus. Add (mix) 2 oz. per gallon of water, to disinfect hard, non-porous surfaces. For heavy-duty use, add (mix) 8 oz. per gallon of water (1:16). Remove all animals and feed from premises. Remove all litter and manure from floors, walls, surfaces and fixtures occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with the recommended disinfecting solution for a period of 10 minutes. Immerse all types of equipment used in handling and restraining animals, and scrapers used for removing litter and manure. Ventilate buildings and allow surfaces to air dry before reintroducing animals. Thoroughly scrub all feeding and watering appliances with soap or detergent, and rinse with potable water before reuse.

DEODORIZER DIRECTIONS: Nursing Homes, Hospitals, Hotels, Schools, Restaurants: Use 2-4 ounces of **Zimek QD** in chemical toilets, waste receptacles, bed pans, drainage bottles, diaper pails, hampers, disposals, commodes and air conditioner pans will eliminate odors. **Mopping Solutions, Automatic Scrubbers:** Using 4-8 ounces per gallon of cleaning solution eliminates undesirable odors. **Laundry:** 4-8 ounces per load added during the final rinse cycle deodorizes all offensive odors. **Air Freshener/Automotive Uses:** Use 2 ounces per gallon of water (1 part **Zimek QD** to 64 parts water) or desired concentration to clean and deodorize. Thoroughly wet surfaces with a cloth, mop or sprayer and allow to air dry. The **Zimek QD** solution will effectively neutralize damp musty odors caused by mildew on surfaces in storage areas, basements, closets and bathrooms. The **Zimek QD** solution is also effective on cooking odors (garlic, fish, onions, etc.) when used to clean walls, floors, countertops, stovetops, sinks, appliances, tables, chairs and cabinets. The **Zimek QD** solution will eliminate odors from tobacco smoke, musty carpets and soiled beverages in automobiles when used on leather, vinyl, plastic, metal, and stainless steel surfaces. Treatment of food contact surfaces, such as countertops, stovetops, appliances and tables, must be followed with a potable water rinse. This product is not to be used on glassware, dishware, cookware and utensils.

Carpets: 2-4 ounces per gallon of shampoo solution eliminates odors associated with urine, vomit, smoke, and mildew. Reapply after cleaning for additional freshening effects. Allow to dry. **RV Holding Tanks:** cover bottom of holding tank with water and add 4 ounces to control mold odors. For kitchen waste, add 2 ounces to the gray water tank to eliminate mold odors. **Pet Odors:** (Test hidden area for color fastness). Eliminates odors from urine, feces and vomit on carpet and upholstery. Use 32 ounces per gallon of water or desired amount. Clean prior to application then spray use-solution onto affected areas. **Zimek QD** is also an effective odor neutralizer on pet bedding and litter boxes. Allow to dry. **Sewer Backup, Water Damage:** To clean and deodorize, use 4 ounces per gallon of water. Spray over affected areas before and after cleaning and extraction. Use proper ventilation, open windows. **Cleaning Solution:** Dilute 4-8 ounces per gallon of water for cleaning of kitchen counters, tables, walls, bathrooms, toilet seats, mopping floors and large routine applications. Treatment of food contact surfaces must be followed with a potable water rinse.

SANITIZING NON-FOOD CONTACT SURFACE DIRECTIONS: Add (mix) 0.5 oz. per gallon of water, to sanitize hard porous and non-porous environmental surfaces. Treated surfaces must remain wet for 60 seconds. Let air dry. Do not use in food preparation, food handling and food storage areas. This product is not to be used on glassware, dishware, cookware and utensils.

NOTE: THIS PRODUCT IS NOT TO BE MIXED WITH OTHER PRODUCTS.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. **IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. **IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. 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. Do not give anything by mouth to an unconscious person. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. Have the product container or label with you when calling poison control center, or doctor or going for treatment.

ENVIRONMENTAL HAZARDS: Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. **PESTICIDE STORAGE:** Do not store on side. Avoid crossing or impacting of side walls. Store in original container in area inaccessible to children. **PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray, or mixture of rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. **CONTAINER DISPOSAL:** Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.