MATERIAL SAFETY DATA SHEET

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■ SECTION 01 IDENTIFICATION

MSDS NO. 0232 REVIEWED: January 2009

TRADE NAME: **CorrectPac® Germicidal DetergentQ No. CP232**

NOTE: CAS Registry numbers are not applicable to formulated products. EPA Reg. No. 10324-157-8722 , EPA Est. No. 8722-IL-1

■ SECTION 02 PHYSICAL & HEALTH HAZARDOUS INGREDIENTS

Hazardous Material as defined by 29 CFR 1910.1200 Reportable under CERCLA or SARA TITLE III Sec. 304 Regulations.

None

NOTE: Germicidal detergents contain germicidal active agents. By definition, these agents are biologically active so that they can kill bacteria and viruses on contact. Even though they are not listed by OSHA et. al. as hazardous materials, safe handling procedures and common sense should be used in their use and handling.

■ SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

water	CAS# 7732-18-5
n-alkyl dimethyl benzyl ammonium chloride	CAS# 68424-85-1
didecyl dimethyl ammonium chloride	CAS# 17173-51-5
linear alcohol ethoxylate (C_{12-15})	CAS# 68131-39-5
or undecan-1-ol, ethoxylates	CAS# 34398-01-1
or secondary alcohol (C_{12-16}) ethoxylates	CAS# 84133-50-6
ethanol	CAS# 64-17-5
EDTA	CAS# 64-02-8
citric acid	CAS# 77-92-9
trace colorant	n.a.

■ SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Vapor Pressure:	Not determined
Water Solubility:	Complete.
Melting/Freezing point:	< 0 deg. F.
Appearance:	Red liquid, slightly more viscous than water.
Specific Grav. (water=1):	1.002
VOC content	~ 0.5 % in concentrate
Evaporation Rate:	Slower than 1 (n-butyl acetate = 1)
pH:	in concentrate: 6 - 8 in working/use solution: 6 - 8
Odor:	Fresh, antiseptic odor.

■ SECTION 04 PHYSICAL HAZARD DATA

Flash Point:	None when heated to boiling
Flammable Limits:	Not determined.
Fire Fighting Media:	Water spray, CO_2, dry chemical. Treat primary cause of fire.
Special Fire Fighting Procedures:	n.a.
Fire/Explosion Hazards:	No unusual hazards known.

■ SECTION 05 REACTIVITY DATA

Stability:	Stable.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Long exposure to materials containing copper, aluminum and strong oxidizing agents may cause discoloration.
Incompatible Materials:	Strong oxidizing or reducing agents.
Hazardous Decomposition Products:	If heated to decomposition, CO, CO_2, NO_x and ammonia may be produced.

■ SECTION 06 HEALTH HAZARD DATA

Oral Toxicity:	LD50 --1.01g/kg body weight (male & female rats combined) in concentrate.
Acute Dermal	2 g/kg (male and female rabbits combined) in concentrate
Primary Skin	Corrosive for concentrate, *mildly Irratant for working solution*
Primary Eye	Corrosive for concentrate, *causes moderate irritation for working solution*
Carcinogenicity:	None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

■ SECTION 07 SYMPTOMS OF OVEREXPOSURE

Symptoms of Ingestion: When concentrate is ingested, immediate burning pain in the mouth, throat, abdomen and possible severe swelling of the larynx. Possible skeletal muscle paralysis affecting the ability to breath with circulatory shock if large quantities are ingested. Possible convulsions. May cause red blood cell hemolysis and possible liver and kidney injury. May be fatal.
For Working Solution: Harmful if ingested in large quantities.

Symptoms of Skin Contact: Concentrate may cause corrosive burns. Brief exposure may cause irritation ad defatting of skin. Harmful if absorbed through skin from prolonged contact.
For Working Solution: May be mildly irritating

Symptoms of Eye Contact: Corrosive in concentrate. Causes painful stinging or burning of eyes and lids, watering of eye, conjunctivitis and, in concentrated undiluted form, may cause opaqueness of cornea, possibly leading to loss of sight.
For Working Solution: May cause moderate irritation

Symptoms of Inhalation: If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.
For Working Solution: Mists or vapors may be mildly irritating to throat and respiratory tract.

■ SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: DO NOT attempt to induce vomiting. Have the individual drink one or more full glasses of milk or water. If vomiting occurs, give fluids again. NEVER give anything to an unconscious person. Call a physician or your local Poison Control Center. Treatment should be directed at the control of symptoms and the clinical condition of the patient. There is no specific antidote. Possible mucosal damage may contraindicate the use of gastric lavage.
For Working Solution: Have person swallow water if possible, consult Poison Control or physician for treatment.

For Skin: As for all foreign materials, wash off with copious amounts of water. Remove clothing, which has been saturated by concentrate. Thoroughly wash affected clothing and shoes.
For Working Solution: Remove contaminated clothing, rinse skin with water, wash with soap and water.
Consult physician if irritation persists.

For Eyes: Corrosive in concentrate. PROMPTLY flush with large amount of water for at least 15 minutes, remove contact lens, if present after first 5 minutes, holding eye open. Seek prompt medical attention.
For Working Solution: Immediately flush with water for 15 minutes, holding eye open.
Seek medical attention if irritation persists..

Medical Conditions
Aggravated by Exposure: No data found.

■ SECTION 09 OCCUPATIONAL CONTROL PROCEDURES

Ventilation: Use with adequate ventilation. Working solution should not present any specific hazard. If misted or aerosol generated, local or mechanical exhaust recommended to maintain vapor concentration below TLV. This level should not be reached under normal working conditions.

Respiratory Protection: Not required under normal working/use conditions.

Eye Protection: EPA recommends use of goggles to handle germicidal products.

Skin Protection: EPA recommends use of gloves to handle germicidal products.

Personal Hygiene: As in handling any germicidal detergent, wash thoroughly after using.

■ SECTION 10 PRECAUTIONS FOR SAFE HANDLING STORAGE AND USE

Precautionary Measures: Avoid contact with eyes and prolonged contact of concentrate with skin. Use with adequate ventilation. Do not store at elevated temperatures.

Spills Clean-up Procedures: Concentrated materials are packed in unit-dosed bags limiting any spills to very small quantities. Paper toweling or mopping is usually sufficient.

Disposal Method: Normal waste disposal of empty bags in accordance with state and local regulations or recycle after rinsing package.

Food Contamination: Foods contaminated by germicides should be discarded and utensils, etc. should be rinsed with potable water before use.

■ HAZARD RATINGS

	NFPA Concentrate	NFPA Dilution
Health	2	1
Flammability	0	0
Reactivity	0	0
PPE	X	

■ GENERAL NOTE ABOUT PRODUCTS

CorrectPac® Germicidal Detergent formulation is not substantially different from any other commercially available germicides. The unique packaging of these materials in unit dosed bags limits the amount of exposure of the concentrate to very small amounts. These can be cleaned up with paper toweling or plain mopping. These are in fact products for mopping as well as other maintenance chores requiring disinfectants. We know of no serious hazards associated with the proper use and handling of this product. PortionPac Chemical Corporation makes no warranty, expressed or implied, as to the accuracy, completeness or reliability of this information, except that such information is, to the best of our knowledge and belief, accurate as of the date indicated.

PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

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