

pg 3

MATERIAL SAFETY DATA SHEET
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24 HOUR EMERGENCY RESPONSE PHONE: 1-800-535-5053

#38210, 38215, & 38220

■ SECTION 01 IDENTIFICATION

MSDS NO. 200 Series DATE: January, 1994

TRADE NAME: **Germicidal Detergent No. 201, 202, 204, 205 & 264**

NOTE: CAS Registry numbers are not applicable to formulated products.

■ 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.

Common Name:	ethanolamine, MEA, monoethanolamine		
CAS Registry No.:	141-43-5		
Chemical name:	monoethanolamine, 2-aminoethanol		
Hazard % in formula:	in concentrate: 7.95%	in working/use solution: 0.031%	
Hazard Reference:	3 ppm ACGIH 85/86 Ref. (1) Sec. IX LD ₅₀ rats 10.2g/Kg J.IND.HYG.TOXICOL 23, 259 (1941)		

Common Name:	butyl cellosolve, Poly Solv EB		
CAS Registry No.:	111-76-2		
Chemical Name:	2-butoxyethanol		
Hazard % in formula:	in concentrate: 2.0%	in working/use solution: 0.008%	
Hazard reference:	50 ppm OSHA PEL	25 ppm ACGIH TLV IDLH 700 ppm	

■ SECTION 02A OTHER INGREDIENTS NOT CONSIDERED HAZARDOUS IN FORMULATION

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.

water	
alkyl dimethyl benzyl ammonium chloride	CAS 08424-85-1
nonylphenoxy poly(ethyleneoxy)ethanol	CAS 9016-45-9
tetrapotassium pyrophosphate	CAS 7320-34-5
EDTA	CAS 64-02-5

■ SECTION 03 PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point:	190 deg. F.	
Vapor pressure:	19mm Hg	
Vapor density (Air=1):	Not determined.	
Water solubility:	Complete.	
Melting/Freezing point:	< 0 deg. F.	
Appearance:	Red liquid, slightly more viscous than water.	
Specific Grav. (water=1):	1.056	
Percentage volatiles in concentrate:	Approx. 65% due to water in formulation .	
Evaporation rate:	Much slower than 1 (n-butyl acetate = 1)	
pH:	in concentrate: 12.5 ± .2	in working/use solution: 9.6 ± .3
Odor:	Fresh, antiseptic odor.	

■ SECTION 04 PHYSICAL HAZARD DATA

Flash point:	214 deg. F Closed cup.
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:	Not determined for formulation.
Carcinogenicity:	None of the individual materials in this formulation are listed as carcinogens in NTP, IARC Monographs, or are OSHA Regulated carcinogens.

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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.

Symptoms of Inhalation: If misted in concentrated form, which is improper use, can cause irritation of mucous membrane, nose, eye and throat.

Symptoms of Skin Contact: May cause dermatitis or irritation in some individuals upon prolonged contact. Localized skin defatting can be expected from concentrated material on long contact. Harmful if absorbed through skin.

Symptoms of Eye Contact: 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. Corrosive.

SECTION 08 EMERGENCY FIRST AID PROCEDURES

For Ingestion: Do not induce vomiting. Immediately drink large quantity of water. If vomiting occurs, give fluids again. NEVER give anything to an unconscious person. Call a physician. Possible mucosal damage may contraindicate the use of gastric lavage

For Skin: As for all foreign materials, wash off with water. Remove clothing which has been saturated by concentrate. Do not allow prolonged contact with the concentrated undiluted material as toxic amounts can be absorbed. Decontaminate affected clothing and shoes.

For Eyes: PROMPTLY flush with large amount of water occasionally lifting the lower and upper lids. Call a physician 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: Bags should be triple rinsed before disposal.

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

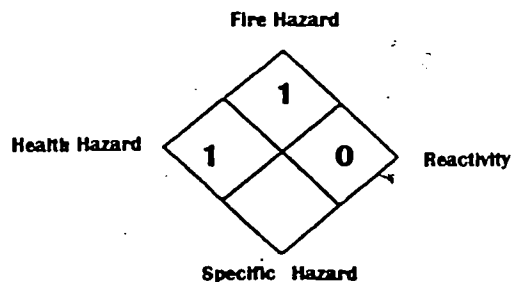
GENERAL NOTE ABOUT PORTION PAC PRODUCTS

PortionPac 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.

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MSDS 201/202/204/205/264 REVISED: 1/94

In Concentrate:



In Dilution:

