



Material Safety Data Sheet and Safe Handling and Disposal Information

ENFORCER Products
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Section 1. Chemical Product and Company Identification

Product name Zep Antibacterial Disinfectant & Cleaner
with lemon
Product code ZUBAC
Date of issue 08/01/07 **Supersedes**
This product is a registered pesticide. Number: 1839-83-40849

Emergency Telephone Numbers **For a Medical Emergency:**
INFOTRAC
(877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:
CHEMTREC
(800) 424-9300 (Toll Free - Calls Recorded)

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Acuity Specialty Products Group
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Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 10	Manufacturer (United States). TWA: 35 ppm 8 hour(s).
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE; ethylenediamine tetraacetic acid; tetrasodium salt	64-02-8	1 - 10	Not established

Section 3. Hazards Identification

Acute Effects **Routes of Entry** Dermal contact. Eye contact.

Skin Direct contact may cause irritation and redness. Skin inflammation is characterized by itching, scaling, or reddening.

Eyes Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Inhalation Avoid breathing vapors, spray or mists. Over-exposure by inhalation may cause respiratory irritation.

Ingestion Harmful if swallowed. Can cause gastrointestinal disturbances.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects The substance may be toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	0
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.

Flammability Aqueous solutions are non-flammable.

Fire hazard Not applicable.

Fire-fighting procedures Not applicable.



Section 6. Accidental Release Measures

Spill Clean up Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Use with adequate ventilation. Do not ingest. Wash thoroughly after handling. Apply this product only as specified on the label.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection**Personal Protection**

Eyes Safety glasses.
Body Recommended: Rubber gloves. Nitrile gloves. Neoprene gloves.
Respiratory No special protection is required.

Protective Clothing (Pictograms)**Section 9. Physical and Chemical Properties**

Physical State	Liquid.	Color	Green.
pH	11.7-12.4	Odor	Lemon-like.
Boiling Point	104.44°C (220°F)	Vapor Pressure	Not determined.
Specific Gravity	1.006 (Water = 1)	Vapor Density	Not determined.
Solubility	Soluble in the following materials: cold water, hot water.	Evaporation Rate	Not determined.
		VOC (Consumer)	6.2 (g/l). 0.05 lbs/gal (0.62%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
Incompatibility Slightly reactive to reactive with oxidizing agents, acids, alkalis. Do not use with other products.
Hazardous Polymerization Will not occur.
Hazardous Decomposition Products carbon oxides (CO, CO₂)

Section 11. Toxicological Information

Toxicity to Animals

Diethylene Glycol Monobutyl Ether:[^][25,45,50,70
 ORAL (LD50): □ Acute: 5660 mg/kg [Rat]. 2400 mg/kg [Mouse].
 DERMAL (LD50): □ Acute: 2700 mg/kg [Rabbit].

Tetrasodium Ethylenediamine Tetraacetate:[^][25,45,50,70
 ORAL (LD50): □ Acute: 4100 mg/kg [Rat].

Section 12. Ecological Information

Ecotoxicity Not available.
Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream Non-hazardous waste
Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Not applicable.
DOT Classification Not a DOT controlled material (United States).
UN number Not applicable.
TDG Classification Not a TDG-controlled material.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:
 Diethylene Glycol Monobutyl Ether
 Clean Water Act (CWA) 311: No products were found.
 Clean Air Act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether

State Regulations California Prop. 65: No products were found.

WHMIS (Canada) Class D-1B: Material causing immediate and serious toxic effects (Toxic).
 Class D-2B: Material causing other toxic effects (Toxic).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.