



ENFORCER Products, Inc.
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**Material Safety Data Sheet
and Safe Handling and Disposal Information**

Section 1. Chemical Product and Company Identification

Product Name Zep Multi-Surface Deodorizer & Disinfectant RTU
Product Code ZMSD-32
Formula No. FOCC32 (EPA Reg. No. 6836-193-40849)
Date of issue 02/05/03

Emergency telephone number For MSDS Information:
Compliance Services (404) 352-1680
For a Medical Emergency:
INFOTRAC
(877) 541-2016 (Toll Free - Calls Recorded)
For a Transportation Emergency:
CHEMTREC
(800) 424-9300 (Toll Free - Calls Recorded)

Prepared by Compliance Services Group
Acuity Specialty Products Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
1) ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1-5	ACGIH TLV (United States). Skin TWA: 20 ppm Form: Vapor OSHA PEL (United States). Skin TWA: 25 ppm Form: Vapor Not available.
2) QUATERNARY AMMONIUM CHLORIDE; Blend of alkyl dimethylbenzyl ammonium chloride, ethanol	CAS# 68424-85-1; CAS# 64-17-5	< 1	

Section 3. Hazards Identification

Acute Effects

Routes of Entry Absorbed through skin.

Eyes Hazardous in case of eye contact (irritant).

Skin Causes skin irritation. Product may be dermally absorbed. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Adverse health effects are considered unlikely when the product is administered according to label directions.

Ingestion Ingestion may cause gastrointestinal irritation and diarrhea.

Chronic Effects Contains a component that may cause damage to red blood cells, kidneys, and liver.

Carcinogenic Effects Ingredients: None are listed as carcinogens by OSHA, NTP or IARC.

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. Seek medical attention if irritation persists.

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

Inhalation If inhaled, remove to fresh air. If irritation persists, seek 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 large quantities of this material are swallowed, call a physician immediately.

Section 5. Fire Fighting Measures**Flash Point** Not applicable.**Flammable Limits** Not applicable.**Flammability** Not applicable.**Fire Hazard** Not applicable.**Fire-Fighting Procedures** Not applicable.

Section 6. Accidental Release Measures**Spill Clean up** Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage**Handling** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area. Store between 40°F and 120°F. Do not reuse container.

Section 8. Exposure Controls, Personal Protection**Personal Protection****Protective Clothing (Pictograms)****Eyes** Safety glasses.**Body** Protective gloves should be worn under conditions of prolonged use.**Respiratory** A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State	Liquid.	Color	Yellow.
pH	12.0	Odor	Floral. (Slight.)
Boiling Point	104.4°C (219.9°F)	Vapor Pressure	Not available.
Specific Gravity	1 (Water = 1)	Vapor Density	Not available.
VOC (Consumer)	20 (g/l).	Evaporation Rate	Not determined.
Solubility	Easily soluble in cold water, hot water.		

Section 10. Stability and Reactivity**Stability and Reactivity** The product is stable.**Incompatibility** Slightly reactive with acids.**Hazardous Decomposition Products** May emit toxic fumes under fire conditions.**Hazardous Polymerization** Will not occur.

Section 11. Toxicological Information**Toxicity to Animals****2-butoxyethanol:**

ORAL (LD50): Acute: 1746 mg/kg [Rat]. 1519 mg/kg [Mouse]. 1414 mg/kg [Guinea pig].

DERMAL (LD50): Acute: 435 mg/kg [Rabbit]. >2000 mg/kg [Guinea pig].

VAPOR (LC50): Acute: 700 ppm 7 hour(s) [Mouse]. >633 ppm 1 hour(s) [Guinea pig]. >691 ppm 1 hour(s) [Guinea pig].

Quaternary ammonium chlorides:

ORAL (LD50): Acute: 4042 mg/kg [Rat].

DERMAL (LD50): Acute: 3346 mg/kg [Rabbit].

Chronic Effects on Humans May cause damage to the following organs: blood, kidneys, liver.

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-regulated waste**Consult your local or regional authorities.**

Section 14. Transport Information**Proper shipping name** None.**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: Ethylene glycol monobutyl ether
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 regulated toxic substances: Ethylene glycol monobutyl ether

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

WHMIS (Canada) WHMIS 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.