

ENFORCER Products A Division of Acuity Specialty Products Group, Inc. P.O. Box 1060 Cartersville, GA 30120 1-888-805-HELP www.zepcommercial.com

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification
Product name Citrus Drain & Disposer Cleaner

Product Code HDOC8

Date of issue 11/11/05 Supersedes

Emergency For a Medical Emergency:

Telephone INFOTRAC

Numbers (877) 541-2016 (Toll Free - Calls Recorded)

For a Transportation Emergency:

CHEMTREC

(800) 424-9300 (Toll Free - Calls Recorded)

Printing Date: 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
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5	ACGIH TLV (United States). TWA: 20 ppm 8 hour(s). OSHA PEL (United States). Skin
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	1 - 5	TWA: 50 ppm 8 hour(s). OSHA PEL / ACGIH TLV (United States). TWA: 3 ppm 8 hour(s).
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	1 - 5	OSHA /ACGIH (United States). STEL: 6 ppm 15 minute(s). Not established

Section 3. Hazards Identification

Acute Effects Routes of Entry Dermal contact. Inhalation.

Skin Direct contact may cause irritation and redness. May cause sensitization by skin contact.

Product may be dermal absorbed.

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

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

irritation. Can cause central nervous system depression.

Ingestion Harmful if swallowed. Can cause gastrointestinal disturbances.

Carcinogenic

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

Effects
Chronic Effects

Effects The substance may be toxic to blood, kidneys, lungs, liver, upper respiratory tract,

skin, eyes, central nervous system (CNS). Repeated or prolonged exposure to the

substance can produce target organs damage.

See Toxicological Information (section 11)

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 irritation persists, 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.

Personal

Protection

1

2

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B

Section 5. Fire Fighting Measures

Flash Point Closed cup: 57.22°C (135°F). Flammable Limits Not determined.

(Tagliabue.)

Flammability COMBUSTIBLE LIQUID AND VAPOR.

Fire Hazard Combustible. Avoid all possible sources of ignition (spark or flame).

Fire-Fighting Procedures Use DRY chemicals, CO₂, water spray or foam. Fire-fighters should wear

proper protective equipment.

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 Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or

spray mists. Use only with adequate ventilation. Do not ingest. Wash thoroughly after handling.

Storage Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid

all possible sources of ignition (spark or flame). Store between 40°F - 120°F (4.4°C - 49°C). Protect from freezing.

Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

Personal Protection Protective Clothing (Pictograms)

Eyes Safety glasses.

Body Recommended: Nitrile gloves. Rubber gloves. Neoprene gloves.

Respiratory Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties

Physical State Liquid. Color Clear. Amber.

pH 11.0-12.0 **Odor** Citrus

Boiling Point Not determined. Vapor Pressure Not determined. Specific Gravity 1.01 (Water = 1) Vapor Density Not determined.

Solubility Soluble in cold water, hot water.

Soluble in cold water, hot water.

Soluble in cold water, hot water.

VOC (Consumer) 105.87 (g/l). 0.88 lbs/gal

(10.50%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Slightly reactive to reactive with oxidizing agents, acids. Keep away from heat, sparks and flame.

Hazardous Polymerization Will not occur.

Hazardous Decomposition carbon oxides (CO, CO₂), nitrogen oxides (NO, NO_{2...}).

Products

Section 11. Toxicological Information

Toxicity to Animals Ethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 1746 mg/kg [Rat]. DERMAL (LD50): Acute: 680 mg/kg [Rabbit].

VAPOR (LC50): Acute: 450 ppm 4 hour(s) [Rat (Female)].

Monoethanolamine:

ORAL (LD50): Acute: 1720 mg/kg [Rat.].
DERMAL (LD50): Acute: >1000 mg/kg [Rabbit].

d-Limonene:

ORAL (LD50): Acute: >5000 mg/kg [Rat].
DERMAL (LD50): Acute: >5000 mg/kg [Rabbit]

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 Code: D001

Classification: - (Hazardous waste.)

Origin: - (RCRA waste.)

Consult your local or regional authorities.

Section 14. Transport Information			
Proper shipping name	Not regulated.		
DOT Classification	Not a DOT controlled material (United States).		
UN number	None.		
TDG Classification	Not a TDG controlled material.		
Section 15. Regulatory In	nformation		
U.S. Federal Regulations	S 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: No products were found.		
	All Components of this product are listed or exempt from listing on TSCA inventory.		
State Regulations	California prop. 65: No products were found.		
WHMIS (Canada)	Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).		
•	Class D-1B: Material causing immediate and serious toxic effects (TOXIC).		
	Class D-2B: Material causing other toxic effects (TOXIC).		

Material Safety Data Sheet

Product Name Citrus Drain & Disposer Cleaner

Section 16. Other Information

Product Code HDOC8

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.