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

Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name Organic Citrus Drain & Disposer Cleaner

Product Code ZOC

Date of issue 04/05/07 Supersedes 11/11/05

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)

HMIS

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Health

Fire Hazard

Reactivity

Personal

Protection

Prepared by Compliance Services Group

Acuity Specialty Products Group 1420 Seaboard Industrial Blvd.

Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Printing Date:

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 allergic reactions to certain

individuals. May be harmful if absorbed through skin.

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

Inhalation 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

Repeated or prolonged exposure to the substance can produce damage to blood,

kidneys, lungs, liver, upper respiratory tract, central nervous system (CNS).

Prolonged skin contact may cause dermatitis with drying and cracking of skin.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and

remove any contact lenses. Get medical attention immediately.

Skin Contact Rinse with plenty of running 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.

Section 5. Fire Fighting Measures

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

(Tagliabue.)

COMBUSTIBLE LIQUID AND VAPOR. **Flammability**

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

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

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.

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

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)

Safety glasses. Eyes

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. pН 11.0-12.0 **Odor** Citrus Vapor Pressure Not determined. **Boiling Point** Not determined. Vapor Density Not determined. **Specific Gravity** 1.01 (Water = 1)

Evaporation Rate 1 compared to water **Solubility** Soluble in cold water, hot water.

VOC (Consumer) 106 (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

Hazardous Decomposition carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Products

Section 11. Toxicological Information

Ethylene Glycol Monobutyl Ether: Toxicity to Animals

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

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.

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		Cleaner

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 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: 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-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.