

ENFORCER Products

A Division of Acuity Specialty Products

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Material Safety Data Sheet

and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name **Heavy-Duty Citrus Degreaser**

Product Code ZUCIT

Date of issue 08/29/07 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)

HMIS

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В

Health

ire 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:

Section 2. Composition, information on ingredients			
Name of Hazardous Ingredients	CAS#	% by Weight	Exposure Limits
D-LIMONENE - orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	1 - 5	Not established
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	1 - 5	OSHA PEL / ACGIH TLV (United States). TWA: 3 ppm 8 hour(s). OSHA /ACGIH (United States). STEL: 6 ppm 15 minute(s).
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5	Manufacturer (United States). TWA: 35 ppm 8 hour(s).
DIPROPYLENE GLYCOL N-BUTYL ETHER; 1-(2-butoxy-1-methoxy)- 2-propanol; glycol ether dpnb	29911-28-2	1 - 5	Not established

Section 3. Hazards Identification

Acute Effects Routes of Entry Dermal contact. Eye contact.

May be harmful if absorbed through skin. May cause allergic reactions to certain individuals. Skin

Direct contact may cause irritation and redness.

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

Inhalation Over-exposure by inhalation may cause respiratory irritation and central nervous system depression.

Ingestion May be harmful if swallowed. Can cause gastrointestinal disturbances.

Carcinogenic

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

Effects

Chronic Effects Prolonged or repeated contact may dry skin and cause irritation. Repeated or

prolonged exposure to the substance can produce damage to blood, kidneys, lungs,

liver, gastrointestinal tract, central nervous system (CNS).

See Toxicological Information (section 11)

Section 4. First Aid Measures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Check for and Eye Contact

remove any contact lenses. Get medical attention immediately.

Skin Contact Inhalation

In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

If inhaled, remove to fresh air. If irritation persists, get medical attention.

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything Ingestion

by mouth to an unconscious person. If affected person is conscious, give plenty of water to drink. Get

medical attention immediately.

Protective Clothing (Pictograms)

Section 5. Fire Fighting Measures

Flash Point Closed cup: 51.1°C (124°F). Flammable Limits Not determined.

(Tagliabue.)

Flammability Combustible.

Fire Hazard Combustible liquid and vapor. 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 Eliminate all ignition sources. 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. Avoid prolonged or repeated contact with skin.

Avoid breathing vapors or spray mists. Use only with adequate ventilation. Do not ingest. Do not reuse product

container. Observe label precautions. 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). Keep out of the reach

of children.

Section 8. Exposure Controls, Personal Protection

Personal Protection

Eyes Safety glasses.Body Gloves. Recommended: Nitrile gloves. Rubber gloves. Neoprene

zloves.

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 StateLiquid.Color Amber.pH11.0-12.0Odor 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.
 Evaporation Rate
 1 compared to water

VOC (Consumer) 40 (g/l). 0.34 lbs/gal 4.00%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

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

Hazardous Polymerization Will not occur.

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

Products

Section 11. Toxicological Information

Toxicity to Animals d-Limonene:

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

Monoethanolamine:

ORAL (LD50): Acute: 1720 mg/kg [Rat.].

Diethylene Glycol Monobutyl Ether:

ORAL (LD50): Acute: 5660 mg/kg [Rat]. 2400 mg/kg [Mouse].

DERMAL (LD50): Acute: 2700 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.

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Product Code ZUCIT Material Safety Data Sheet Product Name Heavy-Duty Citrus Degreaser

Section 14. Transport Information

Proper shipping name Not regulated.

DOT Classification Not a DOT controlled material (United States).

UN number Not regulated.

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 (Certain Glycol Ethers)

Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 regulated toxic substances: Diethylene Glycol Monobutyl Ether 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.