

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name Heavy-Duty Citrus Degreaser

Product code ZUCIT

Date of issue 10/14/08 Supersedes 08/29/07

Emergency Telephone Numbers

For MSDS Information:

Compliance Services 404-352-1680

For Medical Emergency

INFOTRAC: (877) 541-2016 Toll Free - All Calls

Recorded

For Transportation Emergency

CHEMTREC: (800) 424-9300 - All Calls Recorded In the District of Columbia (202) 483-7616

Prepared By

Compliance Services 1420 Seaboard Industrial Blvd. Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

WARNING!

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COMBUSTIBLE. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL IF SWALLOWED.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

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

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

Skin May cause skin irritation. May cause skin sensitization. May cause allergic reactions in certain

individuals. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation Over-exposure by inhalation may cause respiratory irritation.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation and diarrhea.

Prolonged or repeated contact may dry skin and cause irritation. Contains material which may cause damage to the following organs: upper respiratory tract, blood, kidneys, lungs, liver.

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

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

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Name of Hazardous Ingredients	CAS number	% by Weight
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-,	5989-27-5	1 - 5
(R)-		
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	1 - 5
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	1 - 5
DIPROPYLENE GLYCOL N-BUTYL ETHER; 1-(2-butoxy-1-methoxy)- 2-propanol; Glycol	29911-28-2	1 - 5
Ether DPNB		

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and

remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least

10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If irritation persists, get medical attention.

Ingestion If swallowed, 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.

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Flash Point

Section 5. Fire Fighting Measures

Closed cup: 51.1°C (124°F)

[Tagliabue.]

Flammable Limits Not determined. COMBUSTIBLE. **Flammability**

Fire hazard Combustible liquid and vapor. Keep away from heat, sparks and flame.

Fire-Fighting Use dry chemical, CO₂, water spray (fog) or foam. Fire-fighters should wear appropriate

Procedures protective equipment. Do not release runoff from fire to sewers or waterways.

Section 6. Accidental Release Measures

Spill Clean up Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Dilute with

water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal

container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame Handling

> or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Use only with adequate ventilation. Do not ingest. Observe label precautions. Wash thoroughly after handling.

Empty containers retain product residue and can be hazardous. Do not reuse container.

Keep away from heat and direct sunlight. Avoid all possible sources of ignition (spark or flame). Keep container in a **Storage**

cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Keep away from food, drink

and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name Exposure limits

OSHA PEL / ACGIH TLV (United States). MONOETHANOLAMINE; 2-aminoethanol; MEA

TWA: 3 ppm 8 hour(s). OSHA /ACGIH (United States). STEL: 6 ppm 15 minute(s) Manufacturer (United States).

TWA: 35 ppm 8 hour(s).

DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-

butoxyethoxy)-ethanol; butyl carbitol

Personal Protective Equipment (PPE)

Eyes Safety glasses.

For prolonged or repeated handling, use gloves. Recommended: **Body**

Neoprene gloves. Nitrile gloves. Rubber 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

Color Clear. Amber. **Physical State** Liquid.

11.0 - 12.0 **Odor** Citrus pН

Not available. **Boiling Point** Vapor Pressure Not available. Specific Gravity 1.01 Vapor Density Not determined.

Solubility Soluble in water. **Evaporation Rate** 1 (Water = 1) VOC (Consumer) 4.0% 0.34 lbs/gal

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Combustible materials should be stored away from extreme heat and away from strong oxidizing

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agents. Incompatible with some strong acids. Reactive with acidic clay (i.e. clay absorbent)

40 (g/l).

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides, nitrogen oxides (NO, NO₂ etc.)

National Fire Protection Association (U.S.A.)

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

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Monoethanolamine	LD50 Dermal	Rabbit	>1000 mg/kg	-
	LD50 Oral	Rat	1720 mg/kg	-
Diethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Rat	5660 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-

Section 12. Ecological Information

Environmental Effects

No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D001

Classification: - [Hazardous waste.]

Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not applicable.	Not a DOT controlled material (United States).			
TDG Classification					
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG*: Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Product name

Diethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 307: No products were found. 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.

Canada

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).

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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.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.