

# Material Safety Data Sheet



Zep Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** PRE-MOISTENED GENERAL PURPOSE CITRUS CLEANING TOWELS  
**Product use** Cleaning Towelette  
**Product code** R092  
**Date of issue** 08/06/08 **Supersedes**

## Emergency Telephone Numbers

**For MSDS Information:**  
Compliance Services 1-877-793-7776

**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

WARNING !

COMBUSTIBLE. CAUSES EYE IRRITATION.

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.

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



### Acute Effects

### Routes of Entry

Dermal contact.

- Eyes** Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.
- Skin** May cause skin irritation. May cause allergic reactions in certain individuals. Skin inflammation is characterized by itching, scaling, or reddening.
- Inhalation** No known acute effects of this product resulting from inhalation.
- Ingestion** Unlikely in this form.

### Chronic effects

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

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition/Information on Ingredients

D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, 5989-27-5 <5  
(R)-  
MONOETHANOLAMINE; 2-aminoethanol; MEA 141-43-5 <5

## 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. Get medical attention immediately.
- Skin Contact** Wash with soap and water. Get medical attention if irritation develops.
- Inhalation** Remove to fresh air. If irritation persists, get medical attention.
- Ingestion** Unlikely in this form. If swallowed, seek medical advice immediately and show this container or label.

## Section 5. Fire Fighting Measures

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

- Flash Point** Not available.
- Flammable Limits** Not available.
- Flammability** Combustible solid.
- Fire hazard** Material supports combustion.
- Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire.



**Section 6. Accidental Release Measures**

**Spill Clean up** Spills are unlikely due to packaging. Unusable or contaminated product should be collected and stored in a suitable waste container.

**Section 7. Handling and Storage**

**Handling** Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Use with adequate ventilation. Do not ingest. Do not reuse container. Observe label precautions. Wash thoroughly after handling.

**Storage** Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

**Section 8. Exposure Controls/Personal Protection****Product name**

MONOETHANOLAMINE; 2-aminoethanol; MEA

**Exposure limits**

OSHA PEL / ACGIH TLV (United States).

TWA: 3 ppm 8 hour(s).

OSHA /ACGIH (United States).

STEL: 6 ppm 15 minute(s).

**Personal Protective Equipment (PPE)**

**Eyes** Recommended: Safety glasses.



**Body** For prolonged or repeated handling, use the following type of gloves: Neoprene gloves. Nitrile gloves. Rubber gloves.

**Respiratory** No special measures required.

**Section 9. Physical and Chemical Properties**

**Physical State** Solid. [Towels]

**pH** 11.0 - 11.5 (liquid phase)

**Boiling Point** Not applicable.

**Specific Gravity** 1

**Solubility** Not applicable

**Color** Clear Liquid. White Towels.

**Odor** Citrus

**Vapor Pressure** Not available.

**Vapor Density** Not available.

**Evaporation Rate** Not available.

**VOC (Consumer)** 62.59 (g/l). 0.52 lbs/gal (6.27%)

**Section 10. Stability and Reactivity**

**Stability and Reactivity** The product is stable.

**Incompatibility** Reactive or incompatible with the following materials: oxidizing materials.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** carbon oxides (CO, CO<sub>2</sub>)

**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	-

**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** Non-hazardous waste

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
<b>DOT Classification</b>	Not regulated.	Not a DOT controlled material (United States).			
<b>IMDG Class</b>	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:

No products were found.

**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:** 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.

**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.