

# Material Safety Data Sheet



Zep Inc.  
1310 Seaboard Industrial Blvd.  
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1-877-793-7776

## Section 1. Chemical Product and Company Identification

**Product name** Z-FRESH BREEZE  
**Product use** Liquid Odor Counteractant  
**Product code** R016  
**Date of issue** 08/07/08 **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

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

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.

### Acute Effects

### Routes of Entry

Eye contact. Inhalation.

**Eyes** Causes eye irritation. Liquid in eye may cause irritation with possible damage if not rinsed immediately. Inflammation of the eye is characterized by redness, watering and itching.

**Skin** May cause skin irritation. Skin inflammation is characterized by itching, scaling, or reddening.

**Inhalation** Avoid direct inhalation of spray. Over-exposure by inhalation may cause respiratory irritation. Exposure to high concentrations can cause dizziness, lightheadness, headache, nausea, and blurred vision. Higher levels may cause unconsciousness.

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

### Chronic effects

Prolonged or repeated contact may dry skin and cause irritation.

**Additional Information: See Toxicological Information (Section 11)**

## Section 3. Composition/Information on Ingredients

ETHANOL; ethyl alcohol; grain alcohol	64-17-5	1 - 10
C12-C14 ETHOXYLATED ALCOHOLS	68551-12-2	1 - 10

## 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 contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

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

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## Section 5. Fire Fighting Measures

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

**Flash Point** Closed cup: 47.77°C (118°F)

**Flammable Limits** Lower: 2%  
Upper: 12%

**Flammability** COMBUSTIBLE.



**Fire hazard** Combustible liquid and vapor. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Fire-Fighting Procedures** Use an extinguishing agent suitable for the surrounding fire. Cool closed containers exposed to fire with water. Fire-fighters should wear appropriate protective equipment.

### Section 6. Accidental Release Measures

**Spill Clean up** Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

### Section 7. Handling and Storage

**Handling** Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. 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. 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

ETHANOL; ethyl alcohol; grain alcohol

#### Exposure limits

ACGIH TLV / OSHA PEL (United States).  
TWA: 1000 ppm 8 hour(s).

#### Personal Protective Equipment (PPE)

**Eyes** Safety glasses.



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

**Respiratory** Avoid direct inhalation of spray. Use with adequate ventilation. No respiratory protection needed under normal use conditions.

### Section 9. Physical and Chemical Properties

**Physical State** Liquid.

**Color** Clear. Colorless.

**pH** 5.0 - 7.0

**Odor** Pleasant. [Strong]

**Boiling Point** 87.8°C (190°F)

**Vapor Pressure** Not determined.

**Specific Gravity** 0.992

**Vapor Density** Not determined.

**Solubility** Easily soluble in the following materials: cold water and hot water.

**Evaporation Rate** 1 (Water = 1)

**VOC (Consumer)** 71 (g/l). 0.59 lbs/gal (7.1%)

### Section 10. Stability and Reactivity

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

**Incompatibility** Keep away from heat, sparks and flame. 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
Ethanol	LD50 Oral	Rat	7060 mg/kg	-
	LC50 Inhalation Vapor	Rat	20000 mg/m <sup>3</sup>	4 hours

### 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.