



Zep Inc.  
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1-877-I-BUY-ZEP (428-9937)  
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# Material Safety Data Sheet and Safe Handling and Disposal Information

## Section 1. Chemical Product and Company Identification

**Product name** ZEP FRONTIER MOUNTAIN AIR  
**Product use** Toilet Bowl & Urinal Odor Counteractant & Cleaner  
**Product code** 1728  
**Date of issue** 04/12/03 **Supersedes** 12/18/00

### Emergency Telephone Numbers

For MSDS Information:  
Compliance Services 1-877-I-BUY-ZEP (428-9937)

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

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## Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5-15	OSHA (United States). TWA: 1000 ppm
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	5-15	ACGIH TLV (United States). TWA: 200 ppm OSHA PEL (United States). TWA: 400 ppm ACGIH/OSHA (United States). STEL: 400 ppm
ALKYLDIMETHYLETHYL-BENZYL AMMONIUM CHLORIDE	68956-79-6	>5	Not available.
D-LIMONENE - orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	>5	Not available.
ETHYL ACETATE; acetoxyethane; ethyl acetic ester	141-78-6	>5	OSHA PEL (United States). TWA: 400 ppm

## Section 3. Hazards Identification

**Acute Effects** **Routes of Entry** Skin. Inhalation.

**Skin** Slightly hazardous by the following route of exposure: of skin contact (irritant, sensitizer). Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. May cause allergic reactions in certain individuals.

**Eyes** Hazardous by the following route of exposure: of eye contact (irritant). Inflammation of the eye is characterized by redness, watering and itching.

**Inhalation** No data on acute toxicity of the product when inhaled.

**Ingestion** No data on acute toxicity of the product when ingested.

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

### HMIS

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	N/A

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

**Chronic Effects** The substance may be toxic to kidneys, liver, central nervous system (CNS), optic nerve. Repeated or prolonged exposure to the substance can produce target organs damage.

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. Get medical attention.

**Skin Contact** Wash affected area with soap or mild detergent and water. Cover the irritated skin with an emollient. If irritation persists, get medical attention.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If irritation persists, get medical attention.

**Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### Section 5. Fire Fighting Measures

**Flash Point** Closed cup: 35°C (95°F). **FLAMMABLE LIMITS** Not determined.



**Flammability** FLAMMABLE.

**Fire hazard**

**Fire-fighting procedures** Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog). Wear special protective clothing and positive pressure, self-contained breathing apparatus.

### Section 6. Accidental Release Measures

**Spill Clean up** Large spills are unlikely due to packaging. Eliminate all ignition sources. Put on appropriate personal protective equipment (see section 8). Absorb with an inert material and place in an appropriate waste disposal container. To clean the floor and all objects contaminated by this material, use [\*\*\*]. detergent. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

### Section 7. Handling and Storage

**Handling** Keep away from heat, sparks and flame. Avoid contact with eyes, skin and clothing.

**Storage** Flammable Avoid all possible sources of ignition (spark or flame). Store in a dry, cool and well-ventilated area. Keep container tightly closed and sealed until ready for use. Store between the following temperatures: 40°F - 120°F. Keep out of the reach of children.

### Section 8. Exposure Controls, Personal Protection

#### Personal Protection

#### Protective Clothing (Pictograms)

**Eyes** No special measures required.

**Body** No special measures required.

**Respiratory** No special measures required.

### Section 9. Physical and Chemical Properties

**Physical State** Liquid. (Hazy liquid.)

**Color** White.

**pH** Not applicable.

**Odor** Pleasant.

**Boiling Point** 73.9°C (165°F)

**Vapor Pressure** Not determined.

**Specific Gravity** 0.98 (Water = 1)

**Vapor Density** Not determined.

**Solubility** Soluble in the following materials: cold water.

**Evaporation Rate** <1 compared with Butyl acetate.

**VOC (Consumer)** 28% - 274 (g/l).

### Section 10. Stability and Reactivity

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

**Incompatibility** Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

**Hazardous Polymerization** Will not occur.

**Hazardous Decomposition Products** Carbon dioxide., Carbon monoxide. and Other organic materials.

### Section 11. Toxicological Information

#### United States

#### Acute toxicity

### 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: - (None.)  
Classification: - (Non-hazardous waste)  
Origin: - (RCRA waste.)

Consult your local or regional authorities.

### Section 14. Transport Information

**Proper shipping name** Consumer commodity

**DOT Classification** ORM-D

**UN number** None ORM-D Other regulated materials

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.

**TDG Classification** Consumer commodity

**Section 15. Regulatory Information****U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

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****WHMIS (Canada)**

Class B-2: Flammable liquid with a flash point lower than 37.8°C (100°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.*