



ZEP Manufacturing Company
 Acuity Specialty Products Group, Inc.
 P.O. Box 2015
 Atlanta, GA 30301
 1-877-I-BUY-ZEP (428-9937)
 www.zep.com

Material Safety Data Sheet and Safe Handling and Disposal Information

Section 1. Chemical Product and Company Identification

Product name ZEP AIR FAIR LEMON
CONCENTRATE
Product Use Concentrated Odor Counteractant
Product Code F183
Date of issue 05/23/05 **Supersedes** 02/22/00

Emergency Telephone Numbers For MSDS Information:
 Acuity Specialty Products Group, Inc.
 Compliance Services 1-877-I-BUY-ZEP

For Medical Emergency:
 INFOTRAC
 (877) 541-2016 Toll Free - All Calls Recorded

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

Printing date: 05/23/05

Prepared by Compliance Services Group
 Acuity Specialty Products Group
 1420 Seaboard Industrial Blvd.
 Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	15 - 25	ACGIH TLV / OSHA PEL (United States). TWA: 1000 ppm 8 hour(s). Not established
NONYLPHENOXY POLY(ETHYLENEOXY) ETHANOL - npe; poly (oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy PROPRIETARY FRAGRANCE	9016-45-9	15 - 25	Not established
QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol	Proprietary 68391-01-5; 68956-79-6; 64-17-5	15 - 25 <5	Not established ACGIH TLV (United States). TWA: 1000 ppm 8 hour(s). OSHA PEL (United States). TWA: 1900 mg/m ³ 8 hour(s).

Section 3. Hazards Identification

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

Skin Hazardous in case of skin contact (irritant, sensitizer). Prolonged or repeated contact may dry skin and cause irritation. May cause allergic reactions to certain individuals.

Eyes Hazardous in case of eye contact (irritant). Liquid in eye may cause irritation with possible damage if not rinsed immediately.

Inhalation Over-exposure by inhalation may cause respiratory irritation. Exposure to high concentrations can cause dizziness, lightheadness, headache, nausea, and blurred vision. Medical Conditions Aggravated by Overexposure: Respiratory

Ingestion Aspiration hazard if swallowed- can enter lungs and cause damage.

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.

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

Chronic Effects Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.

See Toxicological Information (section 11)

HMIS

Health	1
Fire Hazard	3
Reactivity	0
Personal Protection	B

Section 4. First Aid Measures


Eye Contact Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact Wash affected area with soap or mild detergent and water. Get medical attention if irritation develops.

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

Ingestion Aspiration hazard if swallowed- can enter lungs and cause damage. 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. If affected person is conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 27.2°C (81°F). (Tagliabue.)	Flammable Limits LOWER: 2% UPPER: 12%	
Flammability	Flammable in presence of open flames, sparks and static discharge.		
Fire Hazard	Flammable liquid and vapor. Vapor may cause flash fire.		
Fire-Fighting Procedures	Use DRY chemicals, CO2, alcohol foam. Cool closed containers exposed to fire with water. Fire-fighters should wear proper protective equipment.		


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, or absorb with an inert dry material and place in an appropriate waste disposal container. 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 sources of ignition. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Wash contaminated clothing before reusing. Keep container closed.
Storage	Store and use away from heat, sparks, open flame, or any other ignition source. Keep container tightly closed in a cool, well-ventilated place. 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	Protective Clothing (Pictograms)
Eyes	Recommended: Safety glasses.	
Body	Recommended: For prolonged or repeated handling, use gloves. Neoprene gloves. Rubber gloves.	
Respiratory	Provide adequate ventilation. A respirator is not needed under normal and intended conditions of product use.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Thin liquid)	Color	Colorless.
pH	8.0-9.0	Odor	Lemon (Strong.)
Boiling Point	85°C (185°F)	Vapor Pressure	Not determined.
Specific Gravity	0.95 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	34.67% 2.74 lb/gal 328.8 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 Oxides (CO, CO2)

Section 11. Toxicological Information

Toxicity to Animals	Ethanol:
	ORAL (LD50): Acute: 7060 mg/kg [Rat].
	Quaternary Ammonium Chlorides:
	ORAL (LD50): Acute: 250 mg/kg [Rat].
	Nonylphenoxypoly(Ethyleneoxy)Ethanol:
	ORAL (LD50): Acute: 3310 mg/kg [Rat].
	DERMAL (LD50): Acute: 2000 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: - (Not applicable.) Classification: - (Non-hazardous waste)
Consult your local or regional authorities.		

Section 14. Transport Information**Proper shipping name** None.**DOT Classification** Not a DOT controlled material (United States).**UN number** Not regulated.

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.

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.

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.