



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 A.I.O. 2
Product Use Cleaner. Sanitizer.
Product Code 1309
Date of issue 05/02/05 **Supersedes**
 This product is a registered pesticide. Number: 1270-257

Emergency For MSDS Information:
Telephone Numbers Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP (428-9937)

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: 04/03/07

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
HYDROGEN PEROXIDE; peroxide	7722-84-1	7.5	ACGIH TLV (United States). TWA: 1 ppm 8 hour(s). OSHA PEL (United States). TWA: 1 ppm 8 hour(s). Not established
DIPROPYLENE GLYCOL N-PROPYL ETHER; 2-propanol, 1-(1-methyl-2-propoxyethoxy)	29911-27-1	1 - 10	
QUATERNARY AMMONIUM CHLORIDES; blend of alkyl dimethylbenzyl ammonium chlorides, alkyl dimethyl ethylbenzyl ammonium chlorides, and ethanol	68391-01-5; 68956-79-6; 64-17-5	< 1	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** Dermal contact. Eye contact.

Skin Causes skin irritation. Direct contact may cause irritation and redness. Prolonged or repeated contact may dry skin and cause irritation.

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

Inhalation Avoid breathing vapors or spray mists.

Ingestion Harmful if swallowed.

HMIS

Health	2
Fire Hazard	0
Reactivity	0
Personal Protection	C

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 Repeated or prolonged exposure is not known to aggravate medical condition.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation develops.

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

Ingestion 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.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.	Flammable Limits	Not applicable.
Flammability	Non combustible.		
Fire Hazard	Substance releases oxygen when heated, which may increase the severity of an existing fire. Cool closed containers exposed to fire with water.		
Fire-Fighting Procedures	Use an extinguishing agent suitable for surrounding fires. Wear special protective clothing and positive pressure, self-contained breathing apparatus.		

**Section 6. Accidental Release Measures**

Spill Clean up	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.
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Section 7. Handling and Storage

Handling	Avoid contact with eyes, skin and clothing. Apply this product only as specified on the label. Wash contaminated clothing before reusing. Wash thoroughly after handling. Do not reuse product container.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area. Protect from temperature extremes and direct sunlight. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. Synthetic apron.	
Respiratory	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Thin liquid)	Color	Clear. Green. (Light.)
pH	3.5-4.0	Odor	Pleasant.
Boiling Point	104.4°C (220°F)	Vapor Pressure	Not determined.
Specific Gravity	1.03 (Water = 1)	Vapor Density	Not determined.
Solubility	Easily soluble in cold water, hot water.	Evaporation Rate	1 compared to Water
		VOC (Consumer)	0.15% 1.5 (g/l)

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive with oxidizing agents, reducing agents, organic materials.. Keep away from heat and direct sunlight.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	Exposure to heat and exposure to sunlight accelerates decomposition.

Section 11. Toxicological Information

Toxicity to Animals	Hydrogen Peroxide:
	ORAL (LD50): Acute: 1232 mg/kg [Rat].
	Dipropylene Glycol N-propyl Ether:
	ORAL (LD50): Acute: >2000 mg/kg [Rat (Male)]. >1500 mg/kg [Rat (Female)].
	DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].
	Quaternary Ammonium Chlorides:
	ORAL (LD50): Acute: 250 mg/kg [Rat].

Section 12. Ecological Information

Ecotoxicity	The substance is toxic to Fish. Do not allow to enter drains or watercourses.
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	Non-hazardous waste
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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.

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.