



ZEP Manufacturing Company  
Acuity Specialty Products Group, Inc.  
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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 RING MASTER  
**Product Use** All Purpose Bathroom Cleaner  
**Product Code** 1846  
**Date of issue** 10/03/05 **Supersedes** 12/06/04

**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

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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
PHOSPHORIC ACID	7664-38-2	20 - 30	ACGIH / OSHA (United States). TWA: 1 mg/m <sup>3</sup> 8 hour(s). ACGIH TLV (United States). STEL: 3 mg/m <sup>3</sup> 15 minute(s).
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	27176-87-0	10 - 20	ACGIH / OSHA (United States). TWA: 1 mg/m <sup>3</sup> 8 hour(s). ACGIH TLV (United States). STEL: 3 mg/m <sup>3</sup> 15 minute(s).
ISOPROPYL ALCOHOL; ipa; dimethylcarbinol; 2-propanol	67-63-0	5 - 15	ACGIH TLV (United States). TWA: 200 ppm 8 hour(s). OSHA PEL (United States). TWA: 400 ppm 8 hour(s).
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl	7647-01-0	<5	ACGIH/OSHA (United States). STEL: 400 ppm 15 minute(s). ACGIH TLV/OSHA PEL (United States). CEIL: 5 ppm 8 hour(s). OSHA PEL (United States). CEIL: 7 mg/m <sup>3</sup> 8 hour(s).

### Section 3. Hazards Identification

#### HMIS

#### Acute Effects

#### Routes of Entry

**Ingestion.**

**Skin** Hazardous in case of skin contact (corrosive). Skin contact may produce burns.

**Eyes** Hazardous in case of eye contact (corrosive). Direct contact with the eyes can cause irreversible damage including blindness.

**Inhalation** Inhalation may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can produce lung damage, choking, or unconsciousness. Medical Conditions Aggravated by Overexposure: Respiratory

**Ingestion** Harmful if swallowed. Ingestion may cause severe gastric disturbances. May cause burns to mouth, throat and stomach.

Health	3
Fire Hazard	2
Reactivity	0
Personal Protection	n, p

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 skin exposure can produce local skin destruction, or dermatitis.

See Toxicological Information (section 11)

**Section 4. First Aid Measures**

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Get medical attention.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
<b>Ingestion</b>	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**

<b>Flash Point</b>	Closed cup: 41°C (105.8°F). (Tagliabue.)	<b>Flammable Limits</b>	Not determined.
<b>Flammability</b>	Combustible.		
<b>Fire Hazard</b>	Cool closed containers exposed to fire with water. May emit toxic fumes under fire conditions.		
<b>Fire-Fighting Procedures</b>	Wear special protective clothing and positive pressure, self-contained breathing apparatus. Do not release runoff from fire to sewers or waterways.		

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	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. 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.
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**Section 7. Handling and Storage**

<b>Handling</b>	Keep away from sources of ignition. Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe gas/fumes/ vapor/spray. Wash contaminated clothing before reusing. Wash thoroughly after handling.
<b>Storage</b>	Store and use away from heat, sparks, open flame, or any other ignition source. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs. Store between 40°F - 120°F. Keep away from incompatibles. Keep out of the reach of children.

**Section 8. Exposure Controls, Personal Protection**

	<b>Personal Protection</b>	<b>Protective Clothing (Pictograms)</b>
<b>Eyes</b>	Splash goggles. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.	
<b>Body</b>	Neoprene gloves. Nitrile gloves. Rubber gloves.	
<b>Respiratory</b>	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.	

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.	<b>Color</b>	Green.
<b>pH</b>	<1	<b>Odor</b>	Wintergreen.
<b>Boiling Point</b>	94.4°C (202°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.14 (Water = 1)	<b>Vapor Density</b>	Not determined.
<b>Solubility</b>	Easily soluble in cold water, hot water.	<b>Evaporation Rate</b>	Not determined.
		<b>VOC (Consumer)</b>	12.15% 1.15lb/gal 138.27g/l

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive with oxidizing agents, alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	May emit toxic fumes under fire conditions.

**Section 11. Toxicological Information**

<b>Toxicity to Animals</b>	<b>Phosphoric Acid:</b>
	ORAL (LD50): Acute: 4400 mg/kg [Rat].
	DERMAL (LD50): Acute: >3160 mg/kg [Rabbit].
	<b>Dodecylbenzene sulfonic acid:</b>
	ORAL (LD50): Acute: 2140 mg/kg [Rat].
	<b>Isopropyl Alcohol:</b>
	ORAL (LD50): Acute: 4700 mg/kg [Rat].
	DERMAL (LD50): Acute: 13000 mg/kg [Rabbit].
	VAPOR (LC50): Acute: 22500 ppm 8 hour(s) [Rat (Male)]. 19000 ppm 8 hour(s) [Rat (Female)].
	<b>Hydrochloric Acid:</b>

ORAL (LD50): Acute: 900 mg/kg [Rabbit].  
VAPOR (LC50): Acute: 3124 ppm 1 hour(s) [Rat].

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**Section 12. Ecological Information**

**Ecotoxicity** Not available.

**Biodegradable/OECD** Not available.

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**Section 13. Disposal Considerations**

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations. **Waste Stream** Code: D001, D002  
Classification: - (Hazardous waste.)  
Origin: - (RCRA waste.)

**Consult your local or regional authorities.**

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**Section 14. Transport Information**

**Proper shipping name** Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Hydrochloric Acid)

**DOT Classification** DOT Class 8: Corrosive liquid. **UN number** 3264

**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.

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**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: Phosphoric Acid; Dodecylbenzene sulfonic acid; Hydrochloric Acid

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.

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**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.*