

# Material Safety Data Sheet



Zep, Inc.  
1310 Seaboard Industrial Blvd.  
Atlanta, GA 30318  
1-877-I-BUY-ZEP (428-9937)  
www.zep.com

## Section 1. Chemical Product and Company Identification

**Product name** RING MASTER  
**Product use** All Purpose Bathroom Cleaner  
**Product code** 1846  
**Date of issue** 08/04/10 **Supersedes** 05/13/08

## Emergency Telephone Numbers

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

**For Medical Emergency**  
(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

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## Section 2. Hazards Identification

### Emergency overview

**DANGER !**

CAUSES EYE AND SKIN BURNS. HARMFUL IF SWALLOWED.

COMBUSTIBLE.

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

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**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

Dermal contact. Eye contact. Ingestion.

- Eyes** Causes eye burns. Eye exposure may cause severe and permanent eye injury (blindness).  
**Skin** Causes skin burns. The amount of tissue damage depends on length of contact. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.  
**Inhalation** Avoid breathing vapors, spray or mists. Liquid, spray or mist may produce tissue damage, particularly to mucous membranes of eyes, mouth and respiratory tract.  
**Ingestion** Harmful if swallowed. May cause burns to mouth, throat, and stomach.

### Chronic effects

Repeated skin exposure can produce local skin destruction or dermatitis.

### Carcinogenicity

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

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
None:						

Additional Information: See Toxicological Information (Section 11)

## Section 3. Composition Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
PHOSPHORIC ACID	7664-38-2	20 - 30
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	27176-87-0	10 - 20
ETHANOL; ethyl alcohol; grain alcohol	64-17-5	5 - 15
HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl	7647-01-0	<5

## 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 affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention.
- Inhalation** Move exposed person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.)



<b>Flash Point</b>	Closed cup: 41.1°C (106°F) [Tagliabue.]
<b>Flammable Limits</b>	Not determined.
<b>Flammability</b>	COMBUSTIBLE.
<b>Fire hazard</b>	Combustible liquid. May emit toxic fumes under fire conditions.
<b>Fire-Fighting Procedures</b>	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.

**Section 6. Accidental Release Measures**

<b>Spill Clean up</b>	Put on appropriate personal protective equipment (see section 8). Eliminate all ignition sources. 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. Dispose of via a licensed waste disposal contractor.
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**Section 7. Handling and Storage**

<b>Handling</b>	Put on appropriate personal protective equipment (see section 8). Store and use away from heat, sparks, open flame or any other ignition source. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wash thoroughly after handling. Empty containers retain product residue and can be hazardous. Do not reuse container. Apply this product only as specified on the label.
<b>Storage</b>	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. Keep away from heat, sparks and flame. Keep container tightly closed and sealed until ready for use. Keep out of the reach of children.

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

**Product name**  
PHOSPHORIC ACID

**Exposure limits**

**ACGIH TLV (United States, 2/2010).**  
TWA: 1 mg/m<sup>3</sup> 8 hour(s).  
STEL: 3 mg/m<sup>3</sup> 15 minute(s).  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 1 mg/m<sup>3</sup> 8 hour(s).  
STEL: 3 mg/m<sup>3</sup> 15 minute(s).  
**NIOSH REL (United States, 6/2009).**  
TWA: 1 mg/m<sup>3</sup> 10 hour(s).  
STEL: 3 mg/m<sup>3</sup> 15 minute(s).  
**OSHA PEL (United States, 11/2006).**  
TWA: 1 mg/m<sup>3</sup> 8 hour(s).

DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid

**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).

ETHANOL; ethyl alcohol; grain alcohol

**NIOSH REL (United States, 6/2009).**  
TWA: 1000 ppm 10 hour(s).  
TWA: 1900 mg/m<sup>3</sup> 10 hour(s).  
**OSHA PEL (United States, 11/2006).**  
TWA: 1000 ppm 8 hour(s).  
TWA: 1900 mg/m<sup>3</sup> 8 hour(s).  
**ACGIH TLV (United States, 1/2009).**  
STEL: 1000 ppm 15 minute(s).  
**OSHA PEL 1989 (United States, 3/1989).**  
TWA: 1000 ppm 8 hour(s).  
TWA: 1900 mg/m<sup>3</sup> 8 hour(s).

HYDROCHLORIC ACID; muriatic acid; hydrogen chloride; HCl

**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).

**Personal Protective Equipment (PPE)**

<b>Eyes</b>	Splash goggles.	
<b>Body</b>	Wear appropriate protective clothing to prevent skin contact. Recommended: Rubber gloves. Neoprene gloves. Nitrile 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 occupational exposure limits.	

**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 the following materials: cold water and hot water.	<b>Evaporation Rate</b>	Not determined.

VOC (Consumer) 12.1% 1.15 (lb/gal) 138 (g/l)

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Reactive or incompatible with the following materials: oxidizing materials and alkalis.
<b>Hazardous Polymerization</b>	Will not occur.
<b>Hazardous Decomposition Products</b>	carbon oxides (CO, CO <sub>2</sub> )

**Section 11. Toxicological Information****Acute Toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Phosphoric acid	LD50 Oral	Rat	1.25 g/kg	-
Dodecylbenzene sulfonic acid	LC50 Inhalation Vapor	Mouse	320 mg/m <sup>3</sup>	2 hours
	LC50 Inhalation Vapor	Rat	510 mg/m <sup>3</sup>	2 hours
	LD50 Oral	Rat	2140 mg/kg	-
Ethanol	LC50 Inhalation Vapor	Rat	20000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	7 g/kg	-
Hydrochloric Acid	LC50 Inhalation Vapor	Rat	3124 ppm	1 hours
	LD50 Oral	Rabbit	900 mg/kg	-

**Section 12. Ecological Information**

Environmental Effects Not available.

**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** Code: D002  
 Classification: - (Hazardous waste.)  
 Origin: - (RCRA waste.)

**Section 14. Transport Information**

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Phosphoric Acid, Hydrochloric Acid)	8	II	
IMDG Class	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:** Phosphoric Acid (RQ 5,000 lbs); Dodecylbenzene sulfonic acid (RQ 1,000 lbs); Hydrochloric Acid (RQ 5,000 lbs)

**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.*