

# SAFETY DATA SHEET



## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : Zep Ring Master  
Material number : 000000000000184699

#### Manufacturer or supplier's details

Company : Zep Inc.  
Address : 1310 Seaboard Industrial Blvd., NW  
Atlanta, GA 30318  
Telephone : 404-352-1680

#### Emergency telephone numbers

**For SDS Information** : Compliance Services 1-877-428-9937  
**For a Medical Emergency** : 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

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

Appearance	liquid
Colour	green
Odour	characteristic

#### GHS Classification

Acute toxicity (Oral) : Category 4  
Skin corrosion : Category 1A  
Serious eye damage : Category 1

#### GHS Label element

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P363 Wash contaminated clothing before reuse.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

**Potential Health Effects****Carcinogenicity:****IARC**

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**OSHA**

No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**NTP**

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous components**

Chemical Name	CAS-No.	Concentration [%]
orthophosphoric acid	7664-38-2	>= 20 - < 30
urea	57-13-6	>= 5 - < 10
hydrogen chloride	7647-01-0	>= 5 - < 10
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	>= 5 - < 10
Alcohols, C10-14, ethoxylated	66455-15-0	>= 5 - < 10

**SECTION 4. FIRST AID MEASURES****General advice**

- ⚠ Move out of dangerous area.
- ⚠ Consult a physician.

## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

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	<p>Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.</p>
If inhaled	<p>: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician. Move to fresh air.</p>
In case of skin contact	<p>: Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. If on skin, rinse well with water. If on clothes, remove clothes.</p>
In case of eye contact	<p>: Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.</p>
If swallowed	<p>: Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.</p>

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## SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Dry chemical
Unsuitable extinguishing media	: High volume water jet
Specific hazards during firefighting	: Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	: Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Smoke Phosphorus compounds Nitrogen oxides (NO <sub>x</sub> ) Chlorine compounds Sulphur oxides
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Further information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Store and keep away from bases and alkalies. Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
orthophosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	ACGIH
		STEL	3 mg/m <sup>3</sup>	ACGIH
		TWA	1 mg/m <sup>3</sup>	NIOSH REL
		ST	3 mg/m <sup>3</sup>	NIOSH REL
		TWA	1 mg/m <sup>3</sup>	OSHA Z-1

**SAFETY DATA SHEET**



**Zep Ring Master**

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
urea	57-13-6	TWA	10 mg/m3	US WEEL
hydrogen chloride	7647-01-0	C	2 ppm	ACGIH
		C	5 ppm 7 mg/m3	NIOSH REL
		C	5 ppm 7 mg/m3	OSHA Z-1
		C	5 ppm 7 mg/m3	OSHA P0

**Personal protective equipment**

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection  
Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : liquid
- Colour : green
- Odour : characteristic
- Odour Threshold : no data available
- pH : < 1
- Melting point/freezing point : no data available
- Boiling point : 100 °C
- Flash point :  
no data available
- Evaporation rate : no data available
- Upper explosion limit : no data available
- Lower explosion limit : no data available

# SAFETY DATA SHEET



## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

Vapour pressure	: no data available
Relative vapour density	: no data available
Density	: 1.2 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble in cold water, soluble in hot water
Solubility in other solvents	: not determined
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: not determined
Thermal decomposition	: no data available
Viscosity	
Viscosity, kinematic	: no data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: no data available
Incompatible materials	: Oxidizing agents Alkali metals
Hazardous decomposition products	: Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). Oxides of phosphorus

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

**Product:**

Acute oral toxicity : Acute toxicity estimate : 1,755 mg/kg  
Method: Calculation method

#### Skin corrosion/irritation

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

#### Serious eye damage/eye irritation

**SAFETY DATA SHEET**



**Zep Ring Master**

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

**Product:**

Remarks: May cause irreversible eye damage.

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**orthophosphoric acid:**

**urea:**

**hydrogen chloride:**

**Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts:**

**Alcohols, C10-14, ethoxylated:**

**STOT - single exposure**

no data available

**STOT - repeated exposure**

no data available

**Aspiration toxicity**

no data available

**Further information**

**Product:**

Remarks: no data available

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**SECTION 12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

no data available

**Persistence and degradability**

no data available

**Bioaccumulative potential**

**Product:**

Partition coefficient: n- : Remarks: no data available  
octanol/water

**Mobility in soil**

no data available

# SAFETY DATA SHEET



## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

### Other adverse effects

no data available

#### Product:

#### Regulation

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

#### Remarks

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

#### Additional ecological information

: no data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

#### Waste from residues

: Dispose of in accordance with local regulations.

Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with chemical or used container.

#### Contaminated packaging

: Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

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## SECTION 14. TRANSPORT INFORMATION

### International regulation

#### IATA-DGR

UN/ID No. : 3264

Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.  
(HYDROGEN CHLORIDE, PHOSPHORIC ACID)

Class : 8

Packing group : II

Labels : 8

Packing instruction (cargo aircraft) : 855

Packing instruction (passenger aircraft) : 851

#### IMDG-Code

UN number : 3264

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(HYDROGEN CHLORIDE, PHOSPHORIC ACID)



# SAFETY DATA SHEET



## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

Class : 8  
Packing group : II  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

UN/ID/NA number : 3264  
Proper shipping name : Corrosive liquid, acidic, inorganic, n.o.s.  
(HYDROGEN CHLORIDE, PHOSPHORIC ACID)  
Class : 8  
Packing group : II  
Labels : 8  
ERG Code : 154  
Marine pollutant : no

### Special precautions for user

not applicable

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
orthophosphoric acid	7664-38-2	5000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards** : Acute Health Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SAFETY DATA SHEET**



**Zep Ring Master**

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

**California Prop 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

<b>TSCA</b>	On TSCA Inventory
<b>DSL</b>	All components of this product are on the Canadian DSL.
<b>AICS</b>	Not in compliance with the inventory
<b>NZIoC</b>	Not in compliance with the inventory
<b>PICCS</b>	Not in compliance with the inventory
<b>IECSC</b>	Not in compliance with the inventory

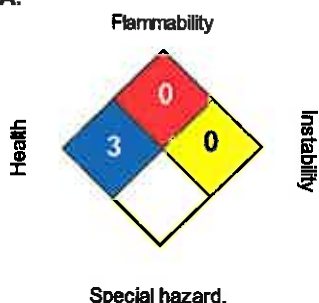
**Inventory Acronym and Validity Area Legend:**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

**SECTION 16. OTHER INFORMATION**

**Further information**

**NFPA:**



**HMIS III:**

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARD</b>	<b>0</b>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, \* = Chronic

**OSHA GHS Label Information:**

Hazard pictograms :



Signal word :

**Danger:**

Hazard statements :

Harmful if swallowed. Causes severe skin burns and eye damage.

Precautionary statements :

**Prevention:** Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:** IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF

# SAFETY DATA SHEET



## Zep Ring Master

Version 1.0

Revision Date 01/09/2015

Print Date 10/15/2015

**IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container in accordance with local regulation.

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