

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP RING MASTER NPE FREE 12QTS

Material number : M61101C

Manufacturer or supplier's details

Company : Zep Inc.

Address : 11627 - 178 Street
Edmonton, Alberta T5S 1N6
Canada

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.**Recommended use of the chemical and restrictions on use**

Recommended use : Bathroom Care Maintenance

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Appearance	liquid
Colour	green
Odour	characteristic

GHS Classification

Flammable liquids : Category 3

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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

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

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

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/doctor.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

Dispose of contents/container in accordance with local regulation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration [%]
orthophosphoric acid	7664-38-2	>= 20 - < 30
Benzenesulfonic acid, C10-16-alkyl derivs.	68584-22-5	>= 10 - < 20
ethanol	64-17-5	>= 10 - < 20
urea hydrochloride	506-89-8	>= 5 - < 10
Alcohols, C10-14, ethoxylated	66455-15-0	>= 5 - < 10
hydrochloric acid	7647-01-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Consult a physician.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : If unconscious place in recovery position and seek medical advice.

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

If symptoms persist, call a physician.

- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Wash off immediately with plenty of water for at least 15 minutes.
Remove contaminated clothing and shoes.
Wash contaminated clothing before reuse.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : 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.
- Most important symptoms and effects, both acute and delayed : Effects are dependent on exposure (dose, concentration, contact time).
Effects are immediate and delayed.
Symptoms may include blistering, irritation, burns, and pain.
Causes severe skin burns and eye damage.
Review section 2 of SDS to see all potential hazards.
- Notes to physician : Treat symptomatically. Symptoms may be delayed.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
Water spray jet
- 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 (CO₂)
Carbon monoxide
Smoke
Phosphorus compounds
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

- 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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
- 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
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SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid formation of aerosol.
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.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
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 : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Oxidizing agents
Store and keep away from bases and alkalies.
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ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

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 ³	CA AB OEL		
		STEL	3 mg/m ³	CA AB OEL		
		TWA	1 mg/m ³	CA BC OEL		
		STEL	3 mg/m ³	CA BC OEL		
		TWAEV	1 mg/m ³	CA QC OEL		
		STEV	3 mg/m ³	CA QC OEL		
		TWA	1 mg/m ³	ACGIH		
		STEL	3 mg/m ³	ACGIH		
		TWA	1 mg/m ³	NIOSH REL		
		ST	3 mg/m ³	NIOSH REL		
		TWA	1 mg/m ³	OSHA Z-1		
		TWA	1 mg/m ³	OSHA P0		
		STEL	3 mg/m ³	OSHA P0		
		PEL	1 mg/m ³	CAL PEL		
ethanol	64-17-5	STEL	3 mg/m ³	CAL PEL		
		TWA	1,000 ppm 1,880 mg/m ³	CA AB OEL		
		STEL	1,000 ppm	CA BC OEL		
		TWAEV	1,000 ppm 1,880 mg/m ³	CA QC OEL		
		TWA	1,000 ppm	ACGIH		
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL		
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1		
		TWA	1,000 ppm 1,900 mg/m ³	OSHA P0		
		STEL	1,000 ppm	ACGIH		
		PEL	1,000 ppm 1,900 mg/m ³	CAL PEL		
		hydrochloric acid	7647-01-0	(c)	2 ppm 3 mg/m ³	CA AB OEL
				C	2 ppm	CA BC OEL
				C	5 ppm 7.5 mg/m ³	CA QC OEL
				C	2 ppm	ACGIH
C	5 ppm 7 mg/m ³			NIOSH REL		
C	5 ppm 7 mg/m ³			OSHA Z-1		
C	5 ppm 7 mg/m ³			OSHA P0		
PEL	0.3 ppm 0.45 mg/m ³			CAL PEL		
C	2 ppm			CAL PEL		

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

Engineering measures : effective ventilation in all processing areas

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection

Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection

: Ensure that eyewash stations and safety showers are close to the workstation location.

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 : No data available

Flash point : 41.1 °C

Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.14 g/cm³

Bulk density : No data available

Solubility(ies)

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

Water solubility	: soluble
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, dynamic	: No data available
Viscosity, kinematic	: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents Bases
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION**Potential Health Effects**

Aggravated Medical Condition	: None known.
Symptoms of Overexposure	: Effects are dependent on exposure (dose, concentration, contact time). Effects are immediate and delayed. Symptoms may include blistering, irritation, burns, and pain.

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.

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

Suspected human carcinogen

sulphuric acid

7664-93-9

Confirmed animal carcinogen with unknown relevance to humans

ethanol

64-17-5

Suspected human carcinogen

sulphuric acid

7664-93-9

Confirmed animal carcinogen with unknown relevance to humans

ethanol

64-17-5

Acute toxicity**Product:**Acute oral toxicity : Acute toxicity estimate : 2,007 mg/kg
Method: Calculation method**Components:****ethanol:**

Acute oral toxicity : LD50 Oral Rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l
Exposure time: 4 h**Skin corrosion/irritation****Product:**

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation**Product:**

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

SAFETY DATA SHEET



ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

orthophosphoric acid:
Benzenesulfonic acid, C10-16-alkyl derivs.:
ethanol:
urea hydrochloride:
Alcohols, C10-14, ethoxylated:
hydrochloric acid:

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product:

Remarks: Solvents may degrease the skin.

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

Other adverse effects

No data available

Product:

Additional ecological : No data available
information

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
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SECTION 14. TRANSPORT INFORMATION

Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID,
HYDROCHLORIC ACID), 8, II - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID,
HYDROCHLORIC ACID), 8, II - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):
UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID, HYDROCHLORIC ACID), 8,
II - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):
UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID, HYDROCHLORIC ACID), 8,
II - Limited quantity

Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):
UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID, HYDROCHLORIC ACID), 8,
II

The product as delivered to the customer conforms to packaging requirements for shipment by road under Transport Dangerous Goods (TDG) Canada regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

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

TSCA On TSCA Inventory
DSL All components of this product are on the Canadian DSL

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

SECTION 16. OTHER INFORMATION

WHMIS - GHS Label Information:

Hazard pictograms :



Signal word :
 Hazard statements :
 Precautionary statements :

Danger:
 Flammable liquid and vapour. Causes severe skin burns and eye damage.

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use non-sparking tools. Take action to prevent static discharges. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 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/doctor. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

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

Version:	1.0
Revision Date:	03/07/2017
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This SDS has been prepared by the Compliance Services organization supporting this manufacturer, supplier or distributor.

Zep Inc. markets products under well recognized and established brand names such as Zep®, Zep Commercial®, Zep Professional®, Enforcer®, National Chemical™, Selig™, Misty®, Next Dimension™, Petro®, i-Chem®, TimeMist®, TimeWick™, MicrobeMax®, Country Vet®,

SAFETY DATA SHEET



ZEP RING MASTER NPE FREE 12QTS

Version 1.0

Revision Date 03/07/2017

Print Date 10/05/2017

Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.