

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Material name : ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL

Material number : 000000000000310225

**Manufacturer or supplier's details**

Company : Zep Inc.

Address : 350 Joe Frank Harris Parkway, SE  
Emerson, GA 30137

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

Recommended use : Bathroom Care Maintenance

**SECTION 2. HAZARDS IDENTIFICATION****Emergency Overview**

Appearance	liquid
Colour	orange, light yellow
Odour	mint-like

**GHS Classification**

Flammable liquids : Category 2

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H225 Highly 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 and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

P241 Use explosion-proof electrical/ ventilating/ lighting equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

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/shower.

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:**

P501 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
4-Nonylphenol branched, ethoxylated	127087-87-0	>= 5 - < 10
2-hydroxyethanoic acid	79-14-1	>= 3 - < 5
sulphuric acid	7664-93-9	>= 0.1 - < 1

The exact percentages of disclosed substances are withheld as trade secrets.

**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.

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

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|---|---|
| If inhaled  | : If unconscious, place in recovery position and seek medical advice.<br>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.<br>Wash off immediately with plenty of water for at least 15 minutes.<br>If on clothes, remove clothes.  |
| In case of eye contact                                      | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If easy to do, remove contact lens, if worn.<br>Continue rinsing eyes during transport to hospital. |
| If swallowed  | : Clean mouth with water and drink afterwards plenty of water.<br>Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.                                    |
| Most important symptoms and effects, both acute and delayed | : Effects are immediate and delayed.<br>Symptoms may include blistering, irritation, burns, and pain.<br>Effects are dependent on exposure (dose, concentration, contact time).<br>Causes severe skin burns and eye damage.<br>Review section 2 of SDS to see all potential hazards.  |
| Notes to physician  | : Treat symptomatically. Symptoms may be delayed.   |

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**SECTION 5. FIREFIGHTING MEASURES**

- |                                      |  |
|--------------------------------------|--|
| Suitable extinguishing media         | : Alcohol-resistant foam<br>Carbon dioxide (CO2)<br>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 (CO2)<br>Carbon monoxide<br>Smoke<br>Phosphorus compounds<br>Sulphur oxides |

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

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|---|---|---|
| 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.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments.<br>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.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.             |
| Environmental precautions   | : | Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>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     | : | Do not breathe vapours/dust.<br>Avoid contact with skin and eyes.<br>For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Take precautionary measures against static discharges.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Open drum carefully as content may be under pressure.<br>To avoid spills during handling keep bottle on a metal tray.<br>Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : | No smoking.<br>Keep container tightly closed in a dry and well-ventilated place.<br>Containers which are opened must be carefully resealed and kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with the technological safety standards.   |

## ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

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

## 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/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		ST	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		STEL	3 mg/m3	OSHA P0
		PEL	1 mg/m3	CAL PEL
ethanol	64-17-5	STEL	3 mg/m3	CAL PEL
		TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0
		STEL	1,000 ppm	ACGIH
		PEL	1,000 ppm 1,900 mg/m3	CAL PEL
		PEL	1,000 ppm 1,900 mg/m3	CAL PEL
sulphuric acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0
		PEL	0.1 mg/m3	CAL PEL
		STEL	3 mg/m3	CAL PEL

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

Remarks

: Protective gloves

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

Eye protection

: Eye wash bottle with pure water

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

	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	: orange, light yellow
Odour	: mint-like
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	: 1
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: not determined
Density	: 1.16 g/cm3
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: not determined
Auto-ignition temperature	: not determined
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: 26.1 mm2/s (20 °C)

**SECTION 10. STABILITY AND REACTIVITY**

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

Reactivity	: Stable
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Vapours may form explosive mixture with air.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Alkali metals Oxidizing agents
Hazardous decomposition products	: Carbon oxides Organic Substances

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

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

**Carcinogenicity:**

<b>IARC</b>	Group 1: Carcinogenic to humans	
	sulphuric acid	7664-93-9
<b>ACGIH</b>	Suspected human carcinogen	
	sulphuric acid	7664-93-9
	Confirmed animal carcinogen with unknown relevance to humans	
	ethanol	64-17-5
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
<b>NTP</b>	Known to be human carcinogen	
	sulphuric acid	7664-93-9

**Acute toxicity****Product:**

Acute oral toxicity	: Acute toxicity estimate : 2,474 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate : > 5,000 mg/kg Method: Calculation method

**Components:****ethanol:**

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

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

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour**4-Nonylphenol branched, ethoxylated:**

Acute oral toxicity : LD50 Oral Rat: 16,000 mg/kg

Acute dermal toxicity : LD50 Rabbit: 2,573 mg/kg

**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**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**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.

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****ethanol :**

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

**2-hydroxyethanoic acid :**

Partition coefficient: n-octanol/water : log Pow: -1.11

**Mobility in soil**

No data available

**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**

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods****Waste from residues**: The product should not be allowed to enter drains, water courses or the soil.  
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.

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

**SECTION 14. TRANSPORT INFORMATION**

Transportation Regulation: 49 CFR (USA):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III - Limited quantity

Transportation Regulation: IMDG (Vessel):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID), 8, III - Limited quantity

Transportation Regulation: IATA (Cargo Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III

Transportation Regulation: IATA (Passenger Air):

UN3264, Corrosive liquid, acidic, inorganic, n.o.s., (PHOSPHORIC ACID), 8, III

Transportation Regulation: TDG (Canada):

UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (PHOSPHORIC ACID), 8, III - Limited quantity

The product as delivered to the customer conforms to packaging requirements for shipment by road under US Department of Transportation (DOT) 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**

**TSCA list** : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**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**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sulphuric acid	7664-93-9	1000	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL**

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:  
sulphuric acid 7664-93-9 0.224 %

**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.

**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:**

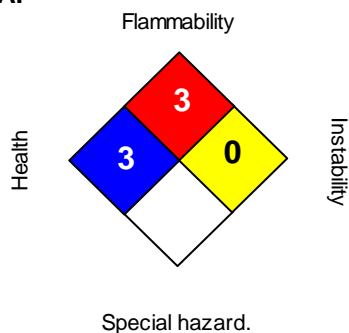
**DSL** All components of this product are on the Canadian DSL  
**TSCA** On TSCA Inventory

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)

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**SECTION 16. OTHER INFORMATION****Further information****NFPA:****HMIS III:**

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

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

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**OSHA - GHS Label Information:**

## ZEP ZDS BATHROOM CLEANER\_CONC\_4CS GL

Version 3.0

Revision Date 04/18/2018

Print Date 07/13/2022

Hazard pictograms



Signal word

: **Danger:**

Hazard statements

: Highly flammable liquid and vapour. Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. 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/shower. 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:	3.0
Revision Date:	04/18/2018
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We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. Users should make their own investigations to determine the suitability and applicability of the information for their particular purposes. 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®, Konk®, Original Bike Spirits®, Blue Coral®, Black Magic®, Rain-X®, Niagara National™, FC Forward Chemicals®, Rexodan®, Mykal™, and a number of private labeled brands.