

**SAFETY DATA SHEET**
according to Regulation (EU) 2015/830

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Zenith 8X One Shot Toilet Cleaner Concentrate (096800)

Revision 8

Revision date 2017-08-25

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name	Zenith 8X One Shot Toilet Cleaner Concentrate (096800)
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC35] Washing and cleaning products (including solvent based products);
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1.3. Details of the supplier of the safety data sheet

Company	Zenith Hygiene Group plc
Address	A1M Business Centre Dixons Hill Road Welham Green Herts AL9 7JE United Kingdom
Web	www.zhgplc.com
Telephone	01707 270260
Email	helpdesk@zhgplc.com

1.4. Emergency telephone number

Emergency telephone number	028 9267 3331
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

2.1.1. Classification - 67/548/EEC	C; R34 Symbols: C: Corrosive.
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Main hazards	Causes burns.
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2.1.2. Classification - EC 1272/2008	Skin Corr. 1B: H314;
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2.2. Label elements**Hazard pictograms****Signal Word**

Danger

Hazard Statement

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Precautionary Statement: Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statement: ResponseP301+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.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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2.2. Label elements

Precautionary Statement: Storage	lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ . P363 - Wash contaminated clothing before reuse.
	P405 - Store locked up.
	Precautionary Statement: Disposal
	P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Further information

	Contains: . phosphoric acid.
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SECTION 3: Composition/information on ingredients

3.1. Substances

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Phosphoric acid...% (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-00	10 - 20%	C; R34	
Citric acid		5949-29-1	201-069-1	01-2119457026-42	1 - 10%	Xi; R36	
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)		8030-78-2	232-447-4		1 - 10%	C; R34 Xn; R22 N; R50 R10-67	
Sodium xylenesulphonate		1300-72-7	215-090-9	01-2119513350-56	1 - 10%	Xi; R36	
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	1 - 10%	F; R11 Xi; R36 R67	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Phosphoric acid...% (Orthophosphoric acid)	015-011-00-6	7664-38-2	231-633-2	01-2119485924-00	10 - 20%	Skin Corr. 1B: H314;	
Citric acid		5949-29-1	201-069-1	01-2119457026-42	1 - 10%	Eye Irrit. 2: H319;	
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)		8030-78-2	232-447-4		1 - 10%	Flam. Liq. 2: H225; Acute Tox. 4: H302; Skin Corr. 1B: H314; STOT SE 3: H336; Aquatic Acute 1: H400;	
Sodium xylenesulphonate		1300-72-7	215-090-9	01-2119513350-56	1 - 10%	Eye Irrit. 2: H319;	
Isopropanol (Propan-2-ol)	603-117-00-0	67-63-0	200-661-7	01-2119457558-25	1 - 10%	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336;	

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Wash with water. Seek medical attention.
Skin contact	Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Irritant, Severe respiratory.
Eye contact	Causes burns.
Skin contact	Causes burns.
Ingestion	Causes burns.

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4.3. Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Use as appropriate: Carbon dioxide (CO₂), Dry chemical, Foam.

5.2. Special hazards arising from the substance or mixture

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

6.3. Methods and material for containment and cleaning up

Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

6.4. Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7.3. Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

Isopropanol (Propan-2-ol)	WEL 8-hr limit ppm: 400	WEL 8-hr limit mg/m ³ : 999
	WEL 15 min limit ppm: 500	WEL 15 min limit mg/m ³ : 1250
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:
Phosphoric acid...% (Orthophosphoric acid)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m ³ : 1
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m ³ : 2
	WEL 8-hr limit mg/m ³ total - inhalable dust:	WEL 15 min limit mg/m ³ total - inhalable dust:
	WEL 8-hr limit mg/m ³ total - respirable dust:	WEL 15 min limit mg/m ³ total - respirable dust:

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DNEL: Derived no-effect level.


Exposure Pattern - Workers

Isopropanol	Long-term - inhalation - Systemic effects	500 mg/m ³	
	Long-term - dermal - Systemic effects	888 mg/kg	
Phosphoric acid...%	Long-term - inhalation - Local effects	2.92 mg/m ³	
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Long-term - inhalation - Systemic effects	3.32 mg/m ³	
	Long-term - dermal - Systemic effects	4.7 mg/kg	
Sodium xylenesulphonate	Long-term - inhalation - Systemic effects	53.6 mg/m ³	
	Long-term - dermal - Systemic effects	7.6 mg/kg	

Exposure Pattern - General population

Isopropanol	Long-term - inhalation - Systemic effects	80 mg/m ³	
	Long-term - dermal - Systemic effects	319 mg/kg	Long-term - oral - Systemic effects 26 mg/kg
Phosphoric acid...%	Long-term - inhalation - Local effects	0.73 mg/m ³	
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Long-term - inhalation - Systemic effects	0.98 mg/m ³	
	Long-term - dermal - Systemic effects	2.83 mg/kg	Long-term - oral - Systemic effects 2.83 mg/kg
Sodium xylenesulphonate	Long-term - inhalation - Systemic effects	13.2 mg/m ³	
	Long-term - dermal - Systemic effects	3.8 mg/kg	Long-term - oral - Systemic effects 3.8 mg/kg

8.2. Exposure controls

	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Wash hands after handling the product.
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Safety glasses.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not normally required. Do not breathe gas/fumes/vapour/spray.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Blue
Odour	Characteristic
pH	< 3
Melting point	No data available
Freezing Point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	1.14 g/cm ³

SECTION 10: Stability and reactivity

10.1. Reactivity

	No reactivity hazards known under normal storage and use conditions.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No other adverse effects known.
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10.4. Conditions to avoid

	Avoid contact with: Alkalis, chlorine-based bleaching agents.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Causes burns.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

11.1.4. Toxicological Information

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11.1.4. Toxicological Information

Citric acid	Inhalation Rat LC50/15min: NDA Oral Rat LD50: 3000 mg/kg Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: 5400 mg/kg Dermal Guinea Pig LD50: NDA
Isopropanol	Inhalation Rat LC50/30min: NDA Oral Rat LD50: NDA Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: 3600 mg/kg Dermal Guinea Pig LD50: NDA
Phosphoric acid...%	Inhalation Rat LC50/15min: NDA Oral Rat LD50: NDA Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Inhalation Rat LC50/15min: NDA Oral Rat LD50: 1,260 mg/kg Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
Sodium xylenesulphonate	Inhalation Rat LC50/15min: NDA Oral Rat LD50: NDA Dermal Rabbit LD50: >200 mg/kg	Dermal Rat LD50: NDA Oral Mouse LD50: >7000mg/kg Dermal Guinea Pig LD50: NDA

SECTION 12: Ecological information

12.1. Toxicity

Citric acid	Fish LC50/96h: 760.0000 mg/l Daphnia LC50/96h: 120 mg/l (72 h)	Algae EC50/120h: 640 mg/l (Scenedesmus quadricauda (Green algae); 168 h)
Isopropanol	Fish LC50/96h: 1000.0000 mg/l Daphnia LC50/48h: NDA	Green algae EC50/96h: NDA
Phosphoric acid...%	Algae EC50/72h: NDA Guppy LC50/96h: NDA	Daphnia LC50/48h: NDA
Quaternary ammonium compounds, trimethyltallow alkyl, chlorides (*R01)	Algae EC50/72h: NDA Guppy LC50/96h: NDA	Daphnia LC50/48h: NDA
Sodium xylenesulphonate	Daphnia EC50/48h: 40.3000 mg/l Guppy LC50/96h: >1000mg/ml	Algae EC50/72h: 310mg/ml

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Zenith 8X One Shot Toilet Cleaner Concentrate (096800) No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6. Other adverse effects

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12.6. Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal of packaging

Dispose of in compliance with all local and national regulations.
Empty containers can be cleaned with water.

Further information

European Waste Catalogue: 20 01 14 acids.

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

UN1805

14.2. UN proper shipping name

PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

ADR/RID	8
Subsidiary risk	-
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-

14.4. Packing group

Packing group III

14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

ADR/RID

Hazard ID	80
Tunnel Category	(E)

IMDG

EmS Code F-A S-B

IATA

Packing Instruction (Cargo)	856
Maximum quantity	60 L
Packing Instruction (Passenger)	852
Maximum quantity	5 L

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

	Ingredients according to EC Detergent regulations shown in section 16 if applicable.
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15.2. Chemical safety assessment

	A chemical safety assessment has not been carried out on the mixture.
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SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas: 4 - Inhalation.
Acronyms	LC: Lethal concentration. LD: Lethal dose. NDA - No data available. NOAEC: No observed adverse effect concentration. NOAEL: No observed adverse effect level. NOEC: No observed effect concentration. NOEL: No observed effect level. PBT: Persistent, bioaccumulative and toxic. SVHC. Substance of very high concern. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.
Text of risk phrases in Section 3	R10 - Flammable R11 - Highly flammable. R22 - Harmful if swallowed. R34 - Causes burns. R36 - Irritating to eyes. R50 - Very toxic to aquatic organisms. R67 - Vapours may cause drowsiness and dizziness.
Text of Hazard Statements in Section 3	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Acute Tox. 4: H302 - Harmful if swallowed. STOT SE 3: H336 - May cause drowsiness or dizziness. Aquatic Acute 1: H400 - Very toxic to aquatic life.

Further information

	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.
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