



# SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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## Zenith 4X One Shot Concentrated Cleaner Sanitiser (095800)

Revision 16

Revision date 2017-05-04

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name	Zenith 4X One Shot Concentrated Cleaner Sanitiser (095800)
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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	Xi; R38-41 N; R50/53 Symbols: Xi: Irritant. N: Dangerous for the environment.
Main hazards	Irritating to skin. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 1: H410;

#### 2.2. Label elements

Hazard pictograms	 
Signal Word	Danger
Hazard Statement	Skin Irrit. 2: H315 - Causes skin irritation. Eye Dam. 1: H318 - Causes serious eye damage. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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## 2.2. Label elements

<b>Precautionary Statement: Response</b>	P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor/ . P391 - Collect spillage.
<b>Precautionary Statement: Disposal</b>	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.

## 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.
Alcohols, C12-13- branched and linear, ethoxylated (*R01)		160901-19-9	931-954-4		1 - 10%	Xn; R22 Xi; R41	
2-Aminoethanol		141-43-5	205-483-3	01-2119486455-28	1 - 10%	C; R34 Xn; R20/21/22 Xi; R37 R52/53	
Alkyl (C12-16) dimethylbenzyl ammonium chloride (*R01)		68424-85-1	270-325-2		1 - 10%	C; R34 Xn; R22 N; R50	M=10

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Alcohols, C12-13- branched and linear, ethoxylated (*R01)		160901-19-9	931-954-4		1 - 10%	Acute Tox. 4: H302; Eye Dam. 1: H318;	
2-Aminoethanol		141-43-5	205-483-3	01-2119486455-28	1 - 10%	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Corr. 1B: H314; Acute Tox. 4: H332; STOT SE 3: H335; Aquatic Chronic 3: H412;	
Alkyl (C12-16) dimethylbenzyl ammonium chloride (*R01)		68424-85-1	270-325-2		1 - 10%	Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	M=10

## Further information

	Active substance(s). Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)). : 3.5g/100g. Didecyl dimethyl ammonium chloride (DDAC). : 0.5g/100g.
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## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Move the exposed person to fresh air. Seek medical attention.
<b>Eye contact</b>	Causes serious eye damage. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor/ .
<b>Skin contact</b>	Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

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

<b>Inhalation</b>	May cause irritation to respiratory system.
<b>Eye contact</b>	Causes serious eye damage.
<b>Skin contact</b>	Irritating to skin.
<b>Ingestion</b>	Irritant.

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

	No information available on clinical testing and medical monitoring. Specific toxicological
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## 4.3. Indication of any immediate medical attention and special treatment needed

information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Use extinguishing media appropriate to the surrounding fire conditions.

### 5.2. Special hazards arising from the substance or mixture

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. 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. Sweep up. 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. Adopt best Manual Handling considerations when handling, carrying and dispensing.

### 7.2. Conditions for safe storage, including any incompatibilities

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

### 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

2-Aminoethanol	WEL 8-hr limit ppm: 1	WEL 8-hr limit mg/m3: 2.5
	WEL 15 min limit ppm: 3	WEL 15 min limit mg/m3: 7.6
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m3 total -	WEL 15 min limit mg/m3 total -
	respirable dust:	respirable dust:

DNEL: Derived no-effect level.

### Exposure Pattern - Workers

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## Exposure Pattern - Workers

2-Aminoethanol	Long-term - inhalation - Systemic effects	3.3 mg/m <sup>3</sup>	
	Long-term - inhalation - Local effects	3.3 mg/m <sup>3</sup>	Long-term - oral - Systemic effects 1 mg/kg

## Exposure Pattern - General population

2-Aminoethanol	Long-term - inhalation - Systemic effects	2 mg/m <sup>3</sup>	
	Long-term - inhalation - Local effects	2 mg/m <sup>3</sup>	Long-term - dermal - Systemic effects 0.24 mg/kg
	Long-term - oral - Systemic effects	3.75 mg/kg	

## 8.2. Exposure controls

<b>8.2.1. Appropriate engineering controls</b> <b>8.2.2. Individual protection measures</b> <b>Eye / face protection</b> <b>Skin protection - Handprotection</b> <b>Respiratory protection</b>	 	
	Adopt best Manual Handling considerations when handling, carrying and dispensing. Take off immediately all contaminated clothing. Wash hands after handling the product.	
	Ensure adequate ventilation of the working area.	
	Use appropriate personal protective equipment.	
	Safety glasses.	
	Chemical resistant gloves (PVC).	
	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

Appearance	Liquid
Odour	Characteristic
pH	10
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

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## 9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	1.01 g/cm <sup>3</sup>

## 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

	Avoid contact with: Acids.
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## 10.4. Conditions to avoid

	None.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Causes serious eye damage.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	No observed effect level.

## 11.1.4. Toxicological Information

Alkyl (C12-16) dimethylbenzyl ammonium chloride (*R01)	Inhalation Rat LC50/15min: NDA Dermal Rat LD50: 800-1420 mg/kg Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA	Inhalation Rat LC50/30min: NDA Oral Rat LD50: 240-400mg/kg Dermal Rabbit LD50: NDA
2-Aminoethanol	Inhalation Rat LC50/1.3 mg/l h: 6 Oral Rat LD50: 1515 mg/kg Dermal Rabbit LD50: NDA	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA
Alcohols, C12-13- branched and linear, ethoxylated (*R01)	Inhalation Rat LC50/15min: NDA Oral Rat LD50: 300 - 2,000 mg/kg Dermal Rabbit LD50: 2,000 mg/kg	Dermal Rat LD50: NDA Oral Mouse LD50: NDA Dermal Guinea Pig LD50: NDA

## SECTION 12: Ecological information

## 12.1. Toxicity

Alkyl (C12-16) dimethylbenzyl ammonium chloride (*R01)	Daphnia EC50/48h: 0.0200 mg/l Green algae EC50/96h: 0.06mg/l	Fish LC50/96h: 1.2000 mg/l Daphnia LC50/48h: 0.02mg/l
2-Aminoethanol	Daphnia EC50/48h: 65.0000 mg/l Fish LC50/96h: 170 mg/l	Algae EC50/72h: 22 mg/l
Alcohols, C12-13- branched and linear, ethoxylated (*R01)	Daphnia EC50/48h: 0.4500 mg/l Fish LC50/96h: 20.5000 mg/l	Algae IC50/72h: 0.7300 mg/l

## 12.2. Persistence and degradability

	No data is available on this product.
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## 12.3. Bioaccumulative potential

No data is available on this product.

## Partition coefficient

**Zenith 4X One Shot** No data available  
**Concentrated Cleaner Sanitiser**  
**(095800)**

## 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

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 29.

## SECTION 14: Transport information

## Hazard pictograms



## 14.1. UN number

UN3082

## 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 14.3. Transport hazard class(es)

ADR/RID	9
Subsidiary risk	-
IMDG	9
Subsidiary risk	-
IATA	9
Subsidiary risk	-

## 14.4. Packing group

Packing group III

## 14.5. Environmental hazards

Environmental hazards	Yes
Marine pollutant	Yes

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ADR/RID	
Hazard ID	90
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-F
IATA	
Packing Instruction (Cargo)	964
Maximum quantity	450 L
Packing Instruction (Passenger)	964
Maximum quantity	450 L
Further information	
	The product is not classified as dangerous for carriage.
<b>SECTION 15: Regulatory information</b>	
<b>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	
	Ingredients according to EC Detergent regulations shown in section 16 if applicable.
<b>15.2. Chemical safety assessment</b>	
	A chemical safety assessment has not been carried out on the mixture.
<b>SECTION 16: Other information</b>	
Other information	
Revision	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. vPvB. Very persistent and very bioaccumulative. *R01 - Polymer REACH number not available.
	This document differs from the previous version in the following areas:. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response.
Text of risk phrases in Section 3	R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed. R22 - Harmful if swallowed. R34 - Causes burns. R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes. R50 - Very toxic to aquatic organisms. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious eye damage. Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

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## Other information

<b>Labelling for contents</b>	Aquatic Acute 1: H400 - Very toxic to aquatic life. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. non-ionic surfactants 5% - < 15% cationic surfactants 0% - < 5%
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## 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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