

**SAFETY DATA SHEET**


Version: 4.2 Date: 05.03.18

ACCORDING TO EC-REGULATIONS 528/2012 (BPR),  
1272/2008 (CLP) & 453/2010 (REACH)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	<b>Product identifier</b> Product Name Product code(s)	<b>SAFE4 DISINFECTANT</b> <b>HC1025</b>
1.2	<b>Relevant identified uses of the substance or mixture and uses advised against</b> Identified Use(s)	<b>Water based disinfectant and cleaner.</b>
1.3	<b>Details of the supplier of the safety data sheet</b> Company Identification  Telephone  Fax E-Mail (competent person)	<b>Safe Solutions (Safe4 Ltd)</b> Safe Solutions (Safe4) Ltd. Bostock Road Winsford Cheshire CW7 3BD United Kingdom  01606 591900  0845 006 2021 <a href="mailto:info@safe4disinfectant.com">info@safe4disinfectant.com</a>
1.4	<b>Emergency telephone number</b>  Languages spoken	+44 (0) 01606 591900 09:00 – 17:00 (GMT) English, French

**SECTION 2: HAZARD IDENTIFICATION**

2.1	<b>Classification of the substance or mixture</b>	
2.1.1	<b>Regulation (EC) No. 1272/2008 (CLP)</b>	Eye Dam. 1; H318 Skin Irrit. 2; H315
2.1.2	<b>Directive 67/548/EEC &amp; Directive 1999/45/EC</b>	Xi; R41: Risk of serious damage to eyes. Xi; R38: Irritating to skin.
2.2	<b>Label elements</b> Product Name Contains:  tetraaceticacid Hazard Pictogram(s)	According to Regulation (EC) No. 1272/2008 (CLP) <b>SAFE4 DISINFECTANT</b> Benzyl Alkyldimethyl Chloride, Alkylethoxylate,, Ethylene diamine
		
	Signal Word(s)	DANGER
	Hazard Statement(s)	H318: Causes serious eye damage. H315: Causes skin irritation. EUH208: Contains: Polyhexamethylene Hydrochloride. May produce an allergic reaction.

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Precautionary Statement(s) P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

P310: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P405: Store locked up.

Detergent liquids Label elements (648/2004)

**SAFE4 DISINFECTANT** Contains:

Non-ionic surfactants - 5 % or over but less than 15 %

Cationic surfactants - less than 5 %

Disinfectants: Ethylene diamine tetraacetic acid and Polyhexamethylene Hydrochloride

### 2.3 Other hazards

None known.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances Not applicable, Substances in preparations /mixtures

### 3.2 Mixtures

EC Classification Regulation (EC) No. 1272/2008 (CLP)

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	Hazard Statement(s)
Benzyl Alkyldimethyl Chloride	<8	68424-85-1	-	-	Acute Tox. 4; H302 Skin Corr. 1B; H314 Acute Tox. 4; H312 Aquatic Acute 1; H400
Polyhexamethylene biguanide hydrochloride	< 1	32289-58-0	-	-	Acute Tox. 4; H302 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Acute 1; H400
Alkyl C9-C11 Ethoxylate	3 - 5	68439-45-2	-	-	Acute Tox. 4; H302 Eye Dam. 1; H318
Dipropylene glycol monomethylether	1 - 5	34590-94-8	252-104-2	-	Not classified
Ethylene DiamineTetra Acetate	1 - 5	64-02-8	200-573-9	-	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT RE 2; H373 Aquatic Chronic 3; H412
Phosphoric Acid	< 0.5	7664-38-2	201-069-1	-	Eye Irrit. 2; H319
Apple FAF229	< 0.5	Mixture	Mixture	-	Not classified
Hexacol Blue/Green – 77590	< 0.5	Mixture	Mixture	-	Not classified
Water	>75			-	Not classified

Directive 67/548/EEC & Directive 1999/45/EC

Chemical identity of the substance	%W/W	CAS No.	EC No.	REACH Registration No.	EC Classification and Risk PhrasesHazard Statement(s)
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Benzyl Alkyldimethyl Chloride	<8	68424-85-1	-	-	Xn; R21/22: Harmful in contact with skin and if swallowed. C; R34: Causes burns. N; R50: Very toxic to aquatic organisms.
Polyhexamethylene biguanide hydrochloride	< 1	32289-58-0	-	-	Xn; R22: Harmful if swallowed. R43: May cause sensitization by skin contact. Xi; R41: Risk of serious damage to eyes. N; R50: Very toxic to aquatic organisms.
Alkyl C9-C11 Ethoxylate	3 - 5	68439-45-2	-	-	Xn; R22: Harmful if swallowed. Xi; R41: Risk of serious damage to eyes.
Dipropylene glycol monomethylether	1 - 5	34590-94-8	252-104-2	-	Not classified
Ethylene diamine tetraacetic acid	1 - 5	64-02-8	200-573-9	-	Xn; R22: Harmful if swallowed. Xi; R38: Irritating to skin.
					Xi; R41: Risk of serious damage to eyes. Xn; R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Phosphoric acid	< 0.5	7664-38-2	201-069-1	-	Xi; R38: Irritating to skin.
Perfume - FAF229	< 0.5	Mixture	Mixture	-	Not classified
Hexacol – 77590	< 0.5	Mixture	Mixture	-	Not classified
Water	>75	Mixture	Mixture	-	Not classified

## SECTION 4: FIRST AID MEASURES



### 4.1 Description of first aid measures

Inhalation

Skin Contact

Eye Contact

Ingestion

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

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

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical advice/attention if you feel unwell.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. Get medical attention immediately. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Get medical attention immediately. Give plenty of water to drink.

Causes severe burns to skin, eyes, respiratory system and gastrointestinal tract.

Treat symptomatically. IF IN EYES: Obtain prompt consultation, preferably from an ophthalmologist. Chemical eye burns may require extended irrigation.

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## SECTION 5: FIRE-FIGHTING MEASURES

5.1	<b>Extinguishing media</b> Suitable Extinguishing Media	Product as supplied: Does not support combustion. In case of fire, use water spray, foam, dry powder or CO2 for extinction. Direct water jet may spread the fire.
	Unsuitable extinguishing Media	Combustion may cause toxic fumes. <b>mixture</b>
5.2	<b>Special hazards arising from the substance or</b>	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers.
5.3	<b>Advice for fire-fighters</b>	

## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	<b>Personal precautions, protective equipm</b> appropriate personal protective equipment	Ensure adequate ventilation. Avoid contact with skin and eyes. Wear <b>emergency</b>
6.2	<b>Environmental precautions</b>	Avoid release to the environment. Do not release undiluted and unneutralised to the sewer. Spillages or uncontrolled discharges into watercourses must be alerted to the Environment Agency or other appropriate regulatory body.
6.3	<b>Methods and material for containment and cleaning</b>	Cover spills with inert absorbent material. Transfer to a lidded container for disposal or recovery. Dispose of waste according to applicable legislation. Flush spill area with copious amounts of water.
6.4	<b>Reference to other sections</b>	See Section: 8, 13

## SECTION 7: HANDLING AND STORAGE

7.1	<b>Precautions for safe handling</b>	Avoid all contact. Good hygiene practices and housekeeping measures. Do not eat, drink or smoke when using this product.
7.2	<b>Conditions for safe storage, including any incompatibilities</b>	Keep only in original container. Keep container tightly closed and in a well-ventilated place. Provide bunding to hold 110% of the largest container's volume.
	Storage temperature	Store at room temperature. Do not freeze.
	Storage life	Stable at ambient temperatures.
	Incompatible materials	Acids. Keep away from oxidising agents.
7.3	<b>Specific end use(s)</b>	See Also Section: 1.2

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
- 8.1.1 Occupational Exposure Limits

		TWAppm)	TWAmg/m³)	(ppm)	(mg/m³)	
Dipropylene glycol monomethylether	34590-94-8	50	308	-	-	WEL, Sk
<b>SUBSTANCE</b>	<b>CAS No.</b>	<b>LTEL (8 hr</b>	<b>LTEL (8 hr</b>	<b>STEL</b>	<b>STEL</b>	<b>Note</b>

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Source: WEL: Workplace Exposure Limit (UK HSE EH40) Sk -  
Can be absorbed through skin.

8.1.2	<b>Biological limit value</b>	Not established.
8.1.3	<b>PNECs and DNELs</b>	Not established.
8.2	<b>Exposure controls</b>	
8.2.1	<b>Appropriate engineering controls</b>	Ensure adequate ventilation.
8.2.2	<b>Individual protection measures, such as personal equipment (PPE)</b>	Assumes a good basic standard of occupational hygiene is implemented. <b>protective</b>



Eye/face protection

Use eye protection according to EN 166, designed to protect against liquid splashes.



Skin protection

Wear impervious gloves (EN374).  
Breakthrough time of the glove material: refer to the information  
Provided by the glove producer.



Respiratory protection

Wear impervious protective clothing, including boots, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory protection is not necessary if room is well ventilated. In case of inadequate ventilation wear respiratory protection

	Thermal hazards	Not applicable
8.2.3	<b>Environmental Exposure Controls</b>	Avoid release to the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	<b>Information on basic physical and chemical properties</b> (Substances in preparations / mixtures)	
	Appearance	Liquid Green/Blue/Purple/Clear
	Odour	Apple/Mint/Lavender/Odourless
	Odour Threshold	Not determined
	pH	7 - 8
	Melting Point/Freezing Point	0 °C
	Initial boiling point and boiling range	100 – 195 °C
	Flash Point	> 75 °C
	Evaporation Rate	Not determined
	Flammability (solid, gas)	Not applicable (Liquid)
	Upper/lower flammability or explosive limits	Not applicable (Liquid)
	Vapour pressure	Not determined
	Vapour density	Not determined
	Relative density	1.010
	Solubility(ies)	Soluble in water.
	Partition coefficient: n-octanol/water	Not established.
	Auto-ignition temperature	> 210 °C
	Decomposition Temperature	Not established.
	Viscosity	Low Viscosity

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	Explosive properties	Not explosive.
	Oxidising properties	Not oxidising.
9.2	<b>Other information</b>	Not applicable

### SECTION 10: STABILITY AND REACTIVITY

10.1	<b>Reactivity</b>	Stable under normal conditions.	10.2	<b>Chemical stability</b>	Stable
		under normal conditions.			
10.3	<b>Possibility of hazardous reactions</b>				None known.
10.4	<b>Conditions to avoid</b>				Elevated temperature. Do not allow material to freeze.
10.5	<b>Incompatible materials</b>				Acids. Keep away from oxidising agents.
10.6	<b>Hazardous decomposition product(s)</b>				Combustion may cause toxic fumes.

### SECTION 11: TOXICOLOGICAL INFORMATION

11.1	<b>Information on toxicological effects (Substances in pre Acute toxicity</b>	
	Ingestion	Not classified. Acute Toxicity Estimate Mixture Calculation: > 3100 mg/kg Body weight LD50 (rat) 2000 mg/kg (Alcohol Ethoxylate)
	Inhalation	Not classified
	Skin Contact	Not classified
	<b>Skin corrosion/irritation</b>	Eye Dam. 1; Causes severe damage to eyes. (Alcohol Ethoxylate, Benzyl Alkyldimethdyl Chloride )
	<b>Serious eye damage/irritation</b>	Skin Irrit. 2; Causes skin irritation. (Mixture)
	<b>Respiratory or skin sensitization</b>	Contains: Polyhexathylene Hydrochloride. May produce an allergic reaction in persons already sensitised.
	<b>Germ cell mutagenicity</b>	Not classified
	<b>Carcinogenicity</b>	Not classified
	<b>Reproductive toxicity</b>	Not classified
	<b>STOT - single exposure</b>	Not classified
	<b>STOT - repeated exposure</b>	Not classified
	<b>Aspiration hazard</b>	Not classified
11.2	<b>Other information</b>	None

### SECTION 12: ECOLOGICAL INFORMATION

12.1	<b>Toxicity</b>	Not classified (Mixture) Polyhexathylene Hydrochloride: EC50/ 48h 0.2 mg/l (Daphnia magna) EC50/ 72h 0.1 mg/l (Senastrum Capricornutum) LC50/ 96h 0.13 mg/l (Rainbow trout)
12.2	<b>Persistence and degradability</b>	The product is readily biodegradable.
12.3	<b>Bioaccumulative potential</b>	The substance has no potential for bioaccumulation.
12.4	<b>Mobility in soil</b>	The product is predicted to have high mobility in soil. (Soluble in water.)
12.5	<b>Results of PBT and VPVB assessment</b>	Not classified as PBT or vPvB.
12.6	<b>Other adverse effects</b>	None known

### SECTION 13: DISPOSAL CONSIDERATIONS

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### 13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Do not release undiluted and unneutralised to the sewer. Before discharge into sewage plants the product normally needs to be neutralised. (Toxic to sewage micro-organisms.)

## SECTION 14: TRANSPORT INFORMATION

Not classified as dangerous for transport.

	ADR/RID	IMDG	IATA/ICAO
14.1 UN number	None assigned		
14.2 Proper Shipping Name	None assigned		
14.3 Transport hazard class(es)	None assigned		
14.4 Packing group	None assigned		
14.5 Environmental hazards	Not classified.	Not classified as a Marine Pollutant.	Not classified.
14.6 Special precautions for user	See Section: 2		
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.	Not applicable.	Not applicable.
14.8 Additional Information	Not applicable.		

## SECTION 15: REGULATORY INFORMATION

### 151 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1 EU regulations

Authorisations and/or Restrictions On Use

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

None.

#### 15.1.2 National regulations

None known.

### 152 Chemical Safety Assessment

None.

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

**References:** Safety Data Sheets for ingoing ingredients: Mixture, Benzyl Alkyldimethyl Chloride (CAS No. 68424-85-1), Polyhexathylene Hydrochloride (CAS No.27083-27-8), Alkylethoxylate (CAS No. 68439-45-2). Existing ECHA registration(s) for, Dipropylene glycol monomethylether (CAS No.34590-94-8), Ethylene diamine tetraacetic acid (CAS No. 64-02-8), Phosphoric acid (CAS No. 7664-38-2).

### LEGEND

LTEL	Long Term Exposure Limit
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
PBT	Persistent, Bioaccumulative and Toxic
vPvB	very Persistent and very Toxic
OECD	Organisation for Economic Cooperation and Development

Classification of the substance or mixture According to Regulation (EC) No. 1272/2008 (CLP).

Eye Dam. 1; H318

Classification Procedure

Threshold Calculation

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### ACCORDING TO EC-REGULATIONS 528/2012 (BPR), 1272/2008 (CLP) & 453/2010 (REACH)

Skin Irrit. 2; H315	Threshold Calculation
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Training advice: Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required.

#### Disclaimers

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#### Annex to the extended Safety Data Sheet (eSDS)

Contact manufacturer