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## SAFETY DATA SHEET

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

- Product Name: SAFE4 DISINFECTANT CONCENTRATE
- UFI:

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

- Use of the substance/mixture: Disinfectant

**1.3 Details of the supplier of the safety data sheet**

- Name of Supplier: Safe Solutions (Safe4) Ltd.
- Address of Supplier: Safe Solutions (Safe4) Ltd  
Bostock Road  
Winsford  
Cheshire  
CW7 3BD
- Telephone: +44 (0) 1606 591 900
- Email: Info@safe4disinfectant.com

**1.4 Emergency telephone number**

- Emergency Telephone: +44 (0) 1606 591 900

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

- CLP: Not Classified, Skin Sens. 1, Acute Tox. 4, Skin Corr. 1B, STOT RE 1, Aquatic Chronic 2

**2.2 Label elements**

GHS05



GHS09

- Signal Word: Not applicable

**Hazard statements**

Not applicable

H314 - Causes severe skin burns and eye damage.

EUH208 - Contains PolyHexaMethylene Biguanide (PHMB) and Cyanamide, N-cyano-, compd. with 1,6-hexanediamine (2:1), polymer with 1,6-hexanediamine hydrochloride (1:2)  
r. May produce an allergic reaction.

H411 - Toxic to aquatic life with long lasting effects.

H332 - Harmful if inhaled.

H317 - May cause an allergic skin reaction.

**Precautionary statements**

P102 - Keep out of reach of children.

P235+P410 - Keep cool. Protect from sunlight.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for

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**SECTION 2: Hazards identification (....)**

breathing.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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

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

P405 - Store locked up.

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 or doctor/physician.

P273 - Avoid release to the environment.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

**2.3 Other hazards**

- Not applicable
- Contains: QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES  
sodium hydroxide; caustic soda

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**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures****2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

CAS Number:	111-76-2
EC Number:	203-905-0
Concentration:	1 - 5%
Specific Concentration Limits:	Not applicable
M factor:	Not available
Acute toxicity estimate:	Not available
Categories:	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2
Symbols:	GHS07
H Statements:	H332;H312;H302;H315;H319

**PolyHexaMethylene Biguanide (PHMB) and Cyanamide, N-cyano-, compd. with 1,6-hexanediamine (2:1), polymer with 1,6-hexanediamine hydrochloride (1:2)r**

CAS Number:	32289-58-0 and 1802181-67-4
EC Number:	Not applicable
Concentration:	0.1 - 1%
Specific Concentration Limits:	Not applicable
M factor:	Not applicable
Acute toxicity estimate:	Not available
Categories:	Acute Tox. 2, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1
H Statements:	H302, H317, H318, H330, H335, H400, H410

**DIPROPYLENEGLYCOL METHYLEETHER**

CAS Number:	34590-94-8
EC Number:	252-104-2
Concentration:	1 - 5%

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**SECTION 3: Composition/information on ingredients (....)**

Specific Concentration Limits: N/a  
 M factor: Not applicable  
 Acute toxicity estimate: Not applicable  
 Categories: Not applicable

**QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C8-18-ALKYLDIMETHYL, CHLORIDES**

CAS Number: 68424-85-1  
 EC Number: 270-325-2  
 Concentration: 1 - 7.5%  
 Specific Concentration Limits: N/a  
 M factor: Not applicable  
 Acute toxicity estimate: Not applicable  
 Categories: Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1  
 H Statements: H290, H302, H314, H318, H400, H410

**tetrasodium ethylene diamine tetraacetate**

CAS Number: 64-02-8  
 EC Number: 200-573-9  
 Concentration: 0.1 - 1%  
 Specific Concentration Limits: N/a  
 M factor: Not applicable  
 Acute toxicity estimate: Not applicable  
 Categories: Acute Tox. 4, Eye Dam. 1  
 Symbols: GHS05;GHS07  
 H Statements: H302;H318

**trisodium nitrilotriacetate**

CAS Number: 5064-31-3  
 EC Number: 225-768-6  
 Concentration: 0.01 - 0.1%  
 Specific Concentration Limits: Carc. 2; H351: C ≥ 5 %  
 M factor: Not applicable  
 Acute toxicity estimate: Not available  
 Categories: Acute Tox. 4, Eye Irrit. 2, Carc. 2  
 Symbols: GHS08;GHS07  
 H Statements: H351;H302;H319

**GLYCINE, N-(CARBOXYMETHYL)-N-[2-[(CARBOXYMETHYL)AMINO]ETHYL]-, TRISODIUM SALT**

CAS Number: 19019-43-3  
 EC Number: Not applicable  
 Concentration: 0.01 - 0.1%  
 Specific Concentration Limits: Not applicable  
 M factor: Not applicable  
 Acute toxicity estimate: Not available  
 Categories: Eye Irrit. 2

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**SECTION 3: Composition/information on ingredients (....)**

Symbols: GHS07  
H Statements: H319

**SODIUM GLYCOLATE**

CAS Number: 2836-32-0  
EC Number: 220-624-9  
Concentration: 0.01 - 0.1%  
Specific Concentration Limits: Not applicable  
M factor: Not applicable  
Acute toxicity estimate: Not available  
Categories: Skin Irrit. 2, Eye Dam. 1  
Symbols: GHS05  
H Statements: H315, H318

**sodium hydroxide; caustic soda**

CAS Number: 1310-73-2  
EC Number: 215-185-5  
Concentration: 0.01 - 0.1%  
Specific Concentration Limits: Skin Corr. 1A; H314:  $C \geq 5\%$   
Skin Corr. 1B; H314:  $2\% \leq C < 5\%$   
Skin Irrit. 2; H315:  $0,5\% \leq C < 2\%$   
Eye Irrit. 2; H319:  $0,5\% \leq C < 2\%$   
M factor: Not applicable  
Acute toxicity estimate: Not available  
Categories: Skin Corr. 1A  
Symbols: GHS05  
H Statements: H314

**PHOSPHORIC ACID >25 ...%**

CAS Number: 7664-38-2  
EC Number: 231-633-2  
Concentration: 0.1 - 0.5%  
Specific Concentration Limits: N/a  
M factor: Not applicable  
Acute toxicity estimate: Not applicable  
Categories: Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1  
Symbols: GHS05, GHS07  
H Statements: H290, H302, H314, H318

**polyhexamethylene biguanide hydrochloride; PHMB**

H Statements: H351;H330;H302;H372;H318;H317;H400;H410  
Symbols: GHS08;GHS06;GHS05;GHS09

**ALCOHOLS, C9-11 ETHOXYLATED**

H Statements: H302, H318  
Symbols: GHS05, GHS07

**SECTION 4: First aid measures****4.1 Description of first aid measures**

- Rinse mouth.
- If substance has got into eyes, immediately wash out with plenty of water
- Treat symptomatically
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- 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.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- IF exposed or concerned: Get medical advice/attention.
- Call a POISON CENTRE or doctor if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.

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

- Not applicable

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

- Not applicable
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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions

**5.2 Special hazards arising from the substance or mixture**

- No hazard expected under normal conditions of use

**5.3 Advice for firefighters**

- No special precautions are required for this product
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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Not applicable

**6.2 Environmental precautions**

- Not applicable

**6.3 Methods and material for containment and cleaning up**

- No special precautions are required for this product

**6.4 Reference to other sections**

- See Section 8, 13
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**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

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**SECTION 7: Handling and storage (....)**

- Do not handle until all safety precautions have been read and understood.
- Do not eat, drink or smoke when using this product.
- Avoid contact with eyes
- Wear protective gloves/protective clothing/eye protection/face protection.
- Wash contaminated clothing before reuse.
- Use personal protective equipment as required.
- Call a POISON CENTRE or doctor if you feel unwell.
- Get medical advice/attention if you feel unwell.

**7.2 Conditions for safe storage, including any incompatibilities**

- Store in a well-ventilated place. Keep container tightly closed.
- Keep cool.
- Store at ambient temperature
- Avoid contact with acid
- Keep away from oxidising substances
- Store locked up.

**7.3 Specific end use(s)**

- See Section 1.2
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**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

- No information available

**2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**WEL (long term): 25 ppm 123 mg/m<sup>3</sup>WEL (short term): 50 ppm 246 mg/m<sup>3</sup>

DNEL (Industry; dermal, short term systemic effects): 89 mg/kg/day

DNEL (Industry; inhalational, short term systemic effects): 652 mg/m<sup>3</sup>

DNEL (Industry; dermal, long term systemic effects): 75 mg/kg/day

DNEL (Industry; inhalational, long term systemic effects): 98 mg/m<sup>3</sup>

DNEL (Consumer; dermal, short term systemic effects): 44.5 mg/kg/day

DNEL (Consumer; inhalational, short term systemic effects): 426 mg/m<sup>3</sup>

DNEL (Consumer; oral, short term systemic effects): 13.4 mg/kg/day

DNEL (Consumer; dermal, long term systemic effects): 38 mg/kg/day

DNEL (Consumer; oral, long term systemic effects): 3.2 mg/kg/day

**DIPROPYLENEGLYCOL METHYLETHER**

DNEL (Industry; dermal, long term systemic effects): 283 mg/kg/day

DNEL (Industry; inhalational, long term systemic effects): 308 mg/kg

DNEL (Consumer; dermal, long term systemic effects): 121 mg/kg/day

DNEL (Consumer; inhalational, long term systemic effects): 37.2 mg/m<sup>3</sup>

DNEL (Consumer; oral, long term systemic effects): 36 mg/kg/day

**trisodium nitrilotriacetate**DNEL (Industry; inhalational, long term systemic effects): 3.5 mg/m<sup>3</sup>DNEL (Industry; inhalational, short term systemic effects): 5.25 mg/m<sup>3</sup>**sodium hydroxide; caustic soda**DNEL (Consumer; inhalational, long term local effects): 1 mg/m<sup>3</sup>

DNEL (Industry; dermal, short term local effects): 2 mg/kg/day

DNEL (Industry; inhalational, short term local effects): 2 mg/m<sup>3</sup>DNEL (Industry; inhalational, long term local effects): 1 mg/m<sup>3</sup>

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**SECTION 8: Exposure controls/personal protection (....)****PHOSPHORIC ACID >25 ...%**

- DNEL (Industry; inhalational, long term local effects): 2.92 mg/m<sup>3</sup>
- DNEL (Industry; inhalational, long term systemic effects): 1 mg/m<sup>3</sup>
- DNEL (Industry; inhalational, short term local effects): 2 mg/m<sup>3</sup>
- DNEL (Consumer; inhalational, long term local effects): 0.73 mg/m<sup>3</sup>

**tetrasodium ethylene diamine tetraacetate**

- DNEL (Industry; inhalational, short term local effects): 2.5 mg/m<sup>3</sup>
- DNEL (Industry; inhalational, long term local effects): 2.5 mg/m<sup>3</sup>
- DNEL (Consumer; inhalational, short term local effects): 1.5 mg/m<sup>3</sup>
- DNEL (Consumer; inhalational, long term local effects): 1.5 mg/m<sup>3</sup>
- DNEL (Consumer; oral, long term systemic effects): 25 mg/kg/day

**8.2 Exposure controls**

- See Section 2
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.

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**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

- Physical state: Liquid
- Colour: Blue, colourless, green, purple
- Odour: Apple, Lavender, Mint, Odourless
- Melting point/Range: Not applicable
- Boiling Point/Range: >100 °C
- Flammability: Not flammable
- pH: 6 - 7.5
- Solubility in water: Completely soluble in water
- Density: 1.010 g/cm<sup>3</sup> at 20 °C
- Flashpoint: >93°C

**9.2 Other information**

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**SECTION 10: Stability and reactivity****10.1 Reactivity**

- This article is considered stable under normal conditions

**10.2 Chemical stability**

- Considered stable under normal conditions
- Reacts with water

**10.3 Possibility of hazardous reactions**

- No hazardous reactions known if used for its intended purpose

**10.4 Conditions to avoid**

- Extremes of temperature

**10.5 Incompatible materials**

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**SECTION 10: Stability and reactivity (....)**

- Not applicable

**10.6 Hazardous decomposition products**

- None

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**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

Not applicable

**2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**

LD<sub>50</sub> (oral, rat): 1,300 mg/kg

**DIPROPYLENEGLYCOL METHYLEETHER**

LD<sub>50</sub> (oral, rat): 8740 mg/kg

LD<sub>50</sub> (dermal, rabbit): 9510 mg/kg

LC<sub>50</sub> (inhalation, rat): 3404.47 vapours mg/l

**trisodium nitrilotriacetate**

LD<sub>50</sub> (oral, rat): 1740 mg/kg

**sodium hydroxide; caustic soda**

LD<sub>50</sub> (oral, rabbit): >500 mg/kg

**PHOSPHORIC ACID >25 ...%**

LD<sub>50</sub> (oral, rat): 301.0 mg/kg

LD<sub>50</sub> (dermal, rabbit): 2750 mg/kg

**tetrasodium ethylene diamine tetraacetate**

LD<sub>50</sub> (oral, rat): 1780 mg/kg

LC<sub>50</sub> (inhalation, rat): >1-<5 mg/l/4h

**Skin corrosion/irritation**

Not applicable

**Serious eye damage/irritation**

Not applicable

**Respiratory or skin sensitisation**

Not applicable

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

No evidence of carcinogenic effects

**Reproductive toxicity**

Not applicable

**STOT (specific target organ toxicity) - single exposure**



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**SECTION 11: Toxicological information (....)**

No information available

**STOT (specific target organ toxicity) - repeated exposure**

No information available

**Aspiration hazard****11.2 Information on other hazards**

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**SECTION 12: Ecological information****12.1 Toxicity**

- No information available

**2-butoxyethanol; ethylene glycol monobutyl ether; butyl cellosolve**EC<sub>50</sub> (daphnia): 1550 mg/l (48 hr)LC<sub>50</sub> (fish): 1474 mg/l (96 hr)**DIPROPYLENEGLYCOL METHYLETHER**EC<sub>50</sub> (daphnia): 1919 mg/l (48 hr)LC<sub>50</sub> (fish): >1000 mg/l (96 hr)**tetrasodium ethylene diamine tetraacetate**LC<sub>50</sub> (fish): >100 mg/l (96 hr)**sodium hydroxide; caustic soda**EC<sub>50</sub> (daphnia): 40-240 mg/l (48 hr)LC<sub>50</sub> (fish): 33-189 mg/l (96 hr)**PHOSPHORIC ACID >25 ...%**EC<sub>50</sub> (daphnia): >100 mg/l (48 hr)LC<sub>50</sub> (fish): 3-3.25 mg/l (96 hr)**ALCOHOLS, C9-11 ETHOXYLATED**EC<sub>50</sub> (daphnia): 13.4 mg/l (48 hr)LC<sub>50</sub> (fish): 23.7 mg/l (96 hr)**12.2 Persistence and degradability**

- Not applicable

**12.3 Bioaccumulative potential**

- Bioaccumulation is insignificant

**12.4 Mobility in soil**

- Completely soluble in water

**12.5 Results of PBT and vPvB assessment**

- Not a PBT according to REACH Annex XIII

**12.6 Endocrine disrupting properties**

- Not applicable

**12.7 Other adverse effects**

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**SECTION 12: Ecological information (....)**

- Not applicable
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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

- Disposal should be in accordance with local, state or national legislation
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**SECTION 14: Transport information****Not classified as hazardous for transport****14.1 UN number or ID number**

- UN No.: Not applicable

**14.2 UN proper shipping name**

- Proper Shipping Name: Not applicable

**14.3 Transport hazard class(es)**

- Hazard Class: Not applicable

**14.4 Packing group**

- Packing Group: Not applicable

**14.5 Environmental hazards**

- Not Classified

**14.6 Special precautions for user**

- Not Classified

**14.7 Maritime transport in bulk according to IMO instruments**

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

- Refer to current CLP Regulations

**15.2 Chemical safety assessment**

- A REACH chemical safety assessment has not been carried out
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**SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H290: May be corrosive to metals. H302: Harmful if swallowed. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H330: Fatal if inhaled. H332: Harmful if inhaled. H335: May cause respiratory irritation. H351: Suspected of causing cancer. H372: Causes damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects.

**All information correct at time of printing.**

--- end of safety datasheet ---

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