

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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Elsan Fresh water tank clean

Revision 2

Revision date 2015-08-19

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

1.1. Product identifier

Product name	Elsan Fresh water tank clean
Other means of identification	+WATE01
Product code	MF-114

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

Product Use	[SU21] Consumer uses: Private households (= general public = consumers); [PC8] Biocidal products (e.g. Disinfectants, pest control);
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1.3. Details of the supplier of the safety data sheet

Company	Elsan Limited
Address	Bellbrook Park, Uckfield, East Sussex TN22 1QF, England
Web	www.elsan.co.uk
Telephone	+44 (0) 1825 748200
Fax	+44 (0) 1825 761212
Email	sales@elsan.co.uk
Email address of the competent person	sales@elsan.co.uk

1.4. Emergency telephone number


Emergency telephone number	+44 (0) 1825 748200 9.00 am - 5.00 pm Mon - Fri
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; Skin Irrit. 2: H315;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. Skin Irrit. 2: H315 - Causes skin irritation.
Precautionary Statement: Prevention	P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children. P264 - Wash hands thoroughly after handling.

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2.2. Label elements

Precautionary Statement: Response	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ physician /if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water/ soap and water. P332+P313 - If skin irritation occurs: Get medical advice/attention.
	P501 - Dispose of contents/container to accordance with local requirements on waste disposal
Precautionary Statement: Disposal	

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.
Citric acid		5949-29-1	201-069-1		0 - 10%	Xi; R36	
Benzalkonium chloride	612-140-00-5	63449-41-2	264-151-6		0 - 5%	Xn; R21/22 C; R34 N; R50	
2-Bromo-2-nitropropane-1,3-diol	603-085-00-8	52-51-7	200-143-0		0 - 5%	Xn; R21/22 Xi; R37/38-41 N; R50	M=10

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Citric acid		5949-29-1	201-069-1		0 - 10%	Eye Irrit. 2: H319;	
Benzalkonium chloride	612-140-00-5	63449-41-2	264-151-6		0 - 5%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Acute 1: H400;	
2-Bromo-2-nitropropane-1,3-diol	603-085-00-8	52-51-7	200-143-0		0 - 5%	Acute Tox. 4: H312; Acute Tox. 4: H302; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Acute 1: H400;	M=10

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact	Wash off immediately with plenty of soap and water.
Ingestion	DO NOT INDUCE VOMITING. Drink 1 to 2 glasses of water. Never give anything by mouth to an unconscious person.

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

Inhalation	May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	May cause irritation to mucous membranes.

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

Inhalation	Seek medical attention if irritation or symptoms persist.
Eye contact	Seek medical attention if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Seek medical attention if irritation or symptoms persist.

General information

	Consult a physician. Show this safety data sheet to the doctor in attendance.
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Further information

	No additional information available.
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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.

Further information

No additional information available.

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

Ensure adequate ventilation of the working area. Use appropriate personal 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 disposal see section 13.

Further information

No additional information available.

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. Store in correctly labelled containers. Keep away from food, drink and animal feedingstuffs.

Suitable packaging

Keep only in the original container in a cool, well-ventilated place.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Further information

No additional information available.

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

See section 8.2 for further information.

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

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8.2. Exposure controls

8.2.2. Individual protection measures	Wear protective clothing.
Eye / face protection	In case of splashing, wear: Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves.
Respiratory protection	Not normally required.
Thermal hazards	No data available.
8.2.3. Environmental exposure controls	No data available.
Occupational exposure controls	No data available.

Further information

	No additional information available.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light blue
Odour	Odourless
Odour threshold	Not applicable.
pH	2 - 4
Melting point	Not applicable.
Freezing Point	No data available
Initial boiling point	No data available
Flash point	Not applicable.
Evaporation rate	No data available
Flammability (solid, gas)	Not applicable.
Vapour pressure	No data available
Vapour density	Not applicable.
Relative density	1.02 - 1.04 (H ₂ O = 1 @ 20 °C)
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	Not applicable.
Viscosity	8 sec. 4 mm (ISO 2431)
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Solubility	Miscible in water

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Gas group	Not applicable.
Benzene Content	Not applicable.
Lead content	Not applicable.
VOC (Volatile organic compounds)	Not applicable.

SECTION 10: Stability and reactivity

10.1. Reactivity

	No data is available on this product.
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10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

No data is available on this product.

10.4. Conditions to avoid

No data is available on this product.

10.5. Incompatible materials

No data is available on this product.

10.6. Hazardous decomposition products

Burning produces irritating, toxic and obnoxious fumes.

Further information

No additional information available.

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

No data is available on this product.

11.1.2. Mixtures

No data available.

11.1.3. Hazard Information

No data available.

11.1.4. Toxicological Information

2-Bromo-2-nitropropane-1,3-diol	Dermal Rat LD50: >2000 Inhalation Rat LC50/4 h: 0.588	Oral Rat LD50: 305
Benzalkonium chloride	Oral Rat LD50: 795	Dermal Rabbit LD50: 1560
Citric acid	Oral Rat LD50: 11700	

11.1.5. Hazard Class

Non hazardous.

11.1.6. Classification Criteria

No data available.

11.1.7. Information on likely routes of exposure

No data available.

11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

No data available.

11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available.

11.1.10. Interactive effects

No data available.

11.1.11. Absence of specific data

No data available.

11.1.12. Mixture versus substance information

No data available.

11.1.13. Other information

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11.1.13. Other information

No data available.

Further information

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

2-Bromo-2-nitropropane-1,3-diol	Daphnia EC50/48h: 1.4000 mg/l Fish LC50/96h: 41.2000 mg/l	Algae IC50/72h: 2.8000 mg/l
Benzalkonium chloride	Daphnia EC50/48h: 0.0300 mg/l	Fish LC50/96h: 1.7000 mg/l
Citric acid	Fish LC50/96h: 1710.0000 mg/l	

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

Elsan Fresh water tank clean No data available

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

No data is available on this product.

12.6. Other adverse effects

No data is available on this product.

Further information

No additional information available.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal methods

This material and its container must be disposed of in a safe way.

Disposal of packaging

Containers must be recycled in compliance with national legislation and environmental regulations.

Further information

No additional information available.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

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14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

Further information

The product is not classified as dangerous for carriage.

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

Regulations	COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC. The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents.
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15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Further information

No additional information available.

SECTION 16: Other information**Other information**

Revision	This document differs from the previous version in the following areas: 1 - Product Use. 2 - 2.1.2. Classification - EC 1272/2008. 2 - Hazard pictograms. 2 - Signal Word. 2 - Precautionary Statement: Prevention. 2 - Precautionary Statement: Response. 2 - Precautionary Statement: Disposal.
Text of risk phrases in Section 3	R21/22 - Harmful in contact with skin and if swallowed. R34 - Causes burns. R36 - Irritating to eyes. R37/38 - Irritating to respiratory system and skin. R41 - Risk of serious damage to eyes. R50 - Very toxic to aquatic organisms.
Text of Hazard Statements in Section 3	Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H302 - Harmful if swallowed.

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Other information

Acute Tox. 4: H312 - Harmful in contact with skin.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Dam. 1: H318 - Causes serious eye damage.
STOT SE 3: H335 - May cause respiratory irritation.

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.